

**ESSO**

**Mobil**

## Product Summary





## Foreword

This Product Summary guide describes the Esso and Mobil Industrial, Commercial vehicle, Passenger vehicle, Marine and Aviation lubricants offered by ExxonMobil.

Each branded product or series has a brief description of its key features, typical applications, major OEM and EB approvals and some general data on important physical characteristics.

The guide aims to provide a better understanding of the Esso and Mobil products for the Automotive, Aviation, Marine and Industrial sectors to help select the most appropriate lubricant.

Esso and Mobil products are

- carefully formulated to meet today's demanding applications
- rigorously tested and approved to meet many major OEM and EB requirements
- manufactured to high standards and global consistency through the ExxonMobil Quality Integrity Management System.
- widely available through local ExxonMobil lubricants distributors

For additional information regarding these products, please refer to specific Product Data Sheets and Material Safety Data Sheets.

These may be obtained at [www.exxonmobil.com](http://www.exxonmobil.com) or by calling your local ExxonMobil representative or distributor.

For more detailed technical information on these products, please contact the Mobil Technical Helpdesk at +420 221 456 426 or via [TechDeskEurope@exxonmobil.com](mailto:TechDeskEurope@exxonmobil.com)

Due to continued product research and development, the information contained in this guide is subject to change without notification.

The data is intended to be a guide only, and are not manufacturing specifications.

Not all products are available in all markets.

The data was last updated on 31 December 2008.



**Mobil**

# ExxonMobil

## *Lubricants & Specialties*

### Contents

#### **Automotive Lubricants**

Passenger Vehicle Engine Oils	01
Commercial Engine Oils	07
Automatic Transmission Fluids	13
Automotive Gear Oils	14
Agricultural Oils	20
Motorcycle Oils	21

#### **Industrial Lubricants**

Turbine and Circulation Oils	22
Slideway and Spindle Oils	31
Hydraulic Oils	33
Cylinder Oils	39
Industrial Gear Oils	40
Refrigeration Oils	45
Compressor Oils	48
Air Tool Oils	50
Electrical Insulating Oils	51
Gas Engine Oils	52
Heat Transfer Oils	54
Cutting Fluids – Water Miscible	55
Cutting Fluids – Neat	56
Rust Preventives	58
Lubricants for the Food Industry - Oils	59
Lubricants for the Food Industry - Greases	61
Textile Machine Oils	62
Paper Machine Circulation Oils	63
Paper Machine Greases	64
Open Gear Lubrication (Grease)	65
Greases	66
Specialty Products	71

#### **Marine Lubricants**

Marine Engine Oils	72
Marine Cylinder Oils	76
Mobil Stern Tube Lubricant	77

#### **Aviation Lubricants**

Jet Engine Oils	78
Hydraulic Oils	79
Aviation Greases	80

#### **Useful Information**

ISO Viscosity Classification System





Passenger Vehicle Engine Oils
Commercial Engine Oils
Automatic Transmission Fluids
Automotive Gear Oils
Agricultural Oils
Motorcycle Oils
Turbine and Circulation Oils
Slideway and Spindle Oils
Hydraulic Oils
Cylinder Oils
Industrial Gear Oils
Refrigeration Oils
Compressor Oils
Air Tool Oils
Electrical Insulating Oils
Gas Engine Oils
Heat Transfer Oils
Cutting Fluids Water Miscible
Cutting Fluids Neat
Rust Preventives
Lubricants for Food Industry - Oils
Food Industry - Greases
Lubricants for the Food Industry - Greases
Textile Machine Oils
Paper Machine Circulation Oils
Open Gear Lubrication (Grease)
Greases
Specialty Products
Marine Lubricants
Aviation Lubricants
Useful Information

## Product Index

Gargoyle Arctic C Heavy	45	Mobil ATF 320	13	Mobil DTE 18M	36	Mobil EAL Arctic 46	45
Gargoyle Arctic Oil 155	45	Mobil ATF SHC	13	Mobil DTE 19M	37	Mobil EAL Arctic 68	45
Gargoyle Arctic Oil 300	45	Mobil Aviation Grease SHC 100	80	Mobil DTE 21	35	Mobil EAL Arctic 100	46
Gargoyle Arctic SHC 224	45	Mobil Delvac 1240	12	Mobil DTE 22	35	Mobil EAL Arctic 220	46
Gargoyle Arctic SHC 226E	45	Mobil Delvac 1320	11	Mobil DTE 24	35	Mobil EAL Arctic 22CC	46
Gargoyle Arctic SHC 228	45	Mobil Delvac 1330	12	Mobil DTE 25	35	Mobil EAL Hydraulic Oil 32	33
Gargoyle Arctic SHC 230	45	Mobil Delvac 1340	12	Mobil DTE 26	36	Mobil EAL Hydraulic Oil 46	45
Gargoyle Arctic SHC NH 68	45	Mobil Delvac 1350	12	Mobil DTE 27	36	Mobil Extra Hecla Super Cylinder Oil	33
Gearlube VS 200	17	Mobil Delvac 1630	11	Mobil DTE 732	24	Mobil FM 100 Spray	59
Gearlube VS 500	18	Mobil Delvac 1640	11	Mobil DTE 746	25	Mobil Formula S 10W-40	05
Gearlube VS 600	18	Mobil Delvac Hydraulic 10W	11	Mobil DTE 832	23	Mobil Glygoyle Grease 00	66
Hyjet IVA-Plus	79	Mobil Delvac 1 5W-40	08	Mobil DTE 846	23	Mobil Glygoyle 11	43
Kutwell 42	55	Mobil Delvac 1 SHC 5W-40	08	Mobil DTE Excel 32	36	Mobil Glygoyle 22	43
Mobil 1 0W-40	01	Mobil Delvac 1 ESP 5W-40	07	Mobil DTE Excel 46	36	Mobil Glygoyle 30	44
Mobil 1 5W-40	02	Mobil Delvac 1 LE 5W-30	07	Mobil DTE Excel 68	36	Mobil Glygoyle 220	44
Mobil 1 5W-50	02	Mobil Delvac Gear Oil A 80W-90	14	Mobil DTE Excel 100	36	Mobil Glygoyle 320	44
Mobil 1 Arctic 0W-40	01	Mobil Delvac MX 15W-40	11	Mobil DTE Excel 150	36	Mobil Glygoyle 460	44
Mobil 1 ESP Formula 5W-30	02	Mobil Delvac MX ESP 15W-40	10	Mobil DTE FM 32	58	Mobil Glygoyle 680	44
Mobil 1 Extended Life 10W-60	02	Mobil Delvac MX Extra 10W-40	09	Mobil DTE FM 46	58	Mobil Jet Oil 254	78
Mobil 1 Fuel Economy 0W-30	03	Mobil Delvac Super 1400 10W-30	11	Mobil DTE FM 68	58	Mobil Jet Oil II	78
Mobil 1 New Life 0W-40	01	Mobil Delvac Super 1400 15W-40	11	Mobil DTE FM 100	58	Mobil Multigrade 10W-40	06
Mobil 1 Peak Life 5W-50	01	Mobil Delvac Synthetic ATF	13	Mobil DTE FM 150	58	Mobil Multigrade 15W-40	06
Mobil 1 Racing 2T	21	Mobil Delvac Synthetic Gear Oil		Mobil DTE FM 220	58	Mobil Multigrade Diesel 15W-40	06
Mobil 1 Turbo Diesel 0W-40	03	75W-90	14	Mobil DTE FM 320	58	Mobil Paper Machine Oil S 220	63
Mobil 1 Turbo Diesel 5W-40	03	Mobil Delvac Synthetic Gear Oil SHC		Mobil DTE FM 460	58	Mobil Pegasus 1	52
Mobil 600 W Super Cylinder Oil	39	75W-140	15	Mobil DTE FM 680	59	Mobil Pegasus 605	52
Mobil Aero HF	79	Mobil Delvac XHP 10W-40	10	Mobil DTE Oil heavy medium	26	Mobil Pegasus 705 30	52
Mobil Aero HFA	79	Mobil Delvac XHP Extra 10W-40	09	Mobil DTE Oil light	25	Mobil Pegasus 710	52
Mobil Agri Extra 10W-40	19	Mobil Delvac XHP LE 10W-40	09	Mobil DTE Oil medium	25	Mobil Pegasus 801	52
Mobil Agri Super 15W-40	19	Mobil Delvac XHP Ultra 5W-30	08	Mobil DTE PM 150	62	Mobil Pegasus 801 30	52
Mobil Almo 525	50	Mobil DTE 11M	36	Mobil DTE PM 220	62	Mobil Pegasus 805	52
Mobil Almo 527	50	Mobil DTE 13M	36	Mobil EAL Arctic 15	45	Mobil Pegasus 1005	52
Mobil Almo 529	50	Mobil DTE 15M	36	Mobil EAL Arctic 22	45	Mobil Polyrex EM	66
Mobil ATF 220	13	Mobil DTE 16M	36	Mobil EAL Arctic 32	45	Mobil Polyrex EM 103	66



Passenger Vehicle Engine Oils
Commercial Engine Oils
Automatic Transmission Fluids
Automotive Gear Oils
Agricultural Oils
Motorcycle Oils
Turbine and Circulation Oils
Slideway and Spindle Oils
Hydraulic Oils
Cylinder Oils
Industrial Gear Oils
Refrigeration Oils
Compressor Oils
Air Tool Oils
Electrical Insulating Oils
Gas Engine Oils
Heat Transfer Oils
Cutting Fluids Water Miscible
Cutting Fluids Neat
Rust Preventives
Lubricants for Food Industry - Oils
Food Industry - Greases
Lubricants for the Food Industry - Greases
Textile Machine Oils
Paper Machine Circulation Oils
Open Gear Lubrication (Grease)
Greases
Specialty Products
Marine Lubricants
Aviation Lubricants
Useful Information

## Product Index

Mobil Pyrotec HFD 46	34	Mobil Super 1000 X1 10W-40	04	Mobil Velocite Oil No 10	31	Mobilgard M50	73
Mobil Rarus 424	48	Mobil Super 1000 X1 15W-40	04	Mobil Velocite Oil No 3	31	Mobilgard M330	73
Mobil Rarus 425	48	Mobil Super 2000 X1 10W-40	04	Mobil Velocite Oil No 4	31	Mobilgard M340	73
Mobil Rarus 426	48	Mobil Super 2T	21	Mobil Velocite Oil No 6	31	Mobilgard M430	73
Mobil Rarus 427	49	Mobil Super 3000 X1 5W-40	04	Mobil Zerice S 32	47	Mobilgard M440	73
Mobil Rarus 429	49	Mobil Super FE special 5W-30	05	Mobil Zerice S 46	47	Mobilgear 600 XP 68	40
Mobil Rarus 827	48	Mobil Super M 10W-40	05	Mobil Zerice S 68	47	Mobilgear 600 XP 100	40
Mobil Rarus 829	48	Mobil Super M 15W-40	05	Mobil Zerice S 100	47	Mobilgear 600 XP 150	40
Mobil Rarus SHC 1024	48	Mobil Super M 20W-50	05	Mobilarma 524	58	Mobilgear 600 XP 220	40
Mobil Rarus SHC 1025	48	Mobil Super M Diesel 15W-40	06	Mobilarma 778	58	Mobilgear 600 XP 320	40
Mobil Rarus SHC 1026	48	Mobil Super S 10W-40	05	Mobilarma LT	58	Mobilgear 600 XP 460	41
Mobil SHC 522	34	Mobil Super S Turbo Diesel 10W-40	06	Mobilarma MT	58	Mobilgear 600 XP 680	41
Mobil SHC 524	34	Mobil Synt S 5W-40	04	Mobilarma ST	58	Mobilgear OGL 007	65
Mobil SHC 525	35	Mobil Syst S 5W-40	05	Mobilcut 122	55	Mobilgear OGL 009	65
Mobil SHC 526	35	Mobil Syst S Special V 5W-30	06	Mobilcut 222	55	Mobilgear OGL 461	65
Mobil SHC 624	29	Mobil Turbo 319-A2	78	Mobilcut 232	55	Mobilgear SHC 22M	43
Mobil SHC 626	29	Mobil Vacmul EDM3	57	Mobilcut 242	55	Mobilgear SHC 46M	43
Mobil SHC 629	29	Mobil Vactra Oil No 1	31	Mobilcut 321	55	Mobilgear SHC 3200	43
Mobil SHC 630	29	Mobil Vactra Oil No 2	31	Mobilect 39	51	Mobilgear SHC 6800	43
Mobil SHC 632	29	Mobil Vactra Oil No 3	31	Mobilect 44	51	Mobilgear SHC XMP 150	42
Mobil SHC 634	29	Mobil Vactra Oil No 4	32	Mobilfluid 422	19	Mobilgear SHC XMP 220	42
Mobil SHC 639	30	Mobil Vacuoline 128	27	Mobilfluid 424	20	Mobilgear SHC XMP 320	42
Mobil SHC 824	26	Mobil Vacuoline 133	27	Mobilfluid 426	20	Mobilgear SHC XMP 460	42
Mobil SHC 825	26	Mobil Vacuoline 137	27	Mobilgard 1 SHC	75	Mobilgear SHC XMP 680	42
Mobil SHC FM 46	60	Mobil Vacuoline 146	27	Mobilgard 300	74	Mobilgear XMP 100	41
Mobil SHC Grease EAL 102	68	Mobil Vacuoline 148	28	Mobilgard 312	72	Mobilgear XMP 150	41
Mobil SHC Grease 460 WT	69	Mobil Vacuoline 525	28	Mobilgard 412	72	Mobilgear XMP 220	41
Mobil SHC PM 150	63	Mobil Vacuoline 528	28	Mobilgard 450 NC	75	Mobilgear XMP 320	41
Mobil SHC PM 220	63	Mobil Vacuoline 533	28	Mobilgard 512	72	Mobilgear XMP 460	42
Mobil SHC PM 320	63	Mobil Vacuoline 537	28	Mobilgard 570	76	Mobilgrease 28	80
Mobil SHC PM 460	63	Mobil Vacuoline 546	28	Mobilgard ADL 30	72	Mobilgrease 33	80
Mobil SHC Polyrex 462	66	Mobil Velocite HP 24	61	Mobilgard ADL 40	72	Mobilgrease FM 221	61
Mobil Siltac Eal 68	71	Mobil Velocite HP 32	61	Mobilgard HSD	74	Mobilgrease FM 222	61
Mobil Stern Tube Lubricant	77	Mobil Velocite HP 46	61	Mobilgard L540	76	Mobilgrease Special	68



Passenger Vehicle Engine Oils
Commercial Engine Oils
Automatic Transmission Fluids
Automotive Gear Oils
Agricultural Oils
Motorcycle Oils
Turbine and Circulation Oils
Slideway and Spindle Oils
Hydraulic Oils
Cylinder Oils
Industrial Gear Oils
Refrigeration Oils
Compressor Oils
Air Tool Oils
Electrical Insulating Oils
Gas Engine Oils
Heat Transfer Oils
Cutting Fluids Water Miscible
Cutting Fluids Neat
Rust Preventives
Lubricants for Food Industry - Oils
Food Industry - Greases
Lubricants for the Food Industry. Greases
Textile Machine Oils
Paper Machine Circulation Oils
Open Gear Lubrication (Grease)
Greases Specialty Products
Marine Lubricants
Aviation Lubricants
Useful Information

## Product Index

Mobilgrease XHP 103	67	Mobilnac 375 NC	43	Mobilube HD-A 85W-90	16	Terrestic T 68	22
Mobilgrease XHP 221	67	Mobiltemp 1	68	Mobilube HD-A Plus 80W-90	16	Terrestic T 100	23
Mobilgrease XHP 222	67	Mobiltemp 78	68	Mobilube HD-N 80W-140	17	Unirex EP 2	66
Mobilgrease XHP 461	67	Mobiltemp SHC 32	69	Mobilube LS 85W-90	17	Unirex N 2	66
Mobilith SHC 007	69	Mobiltemp SHC 100	69	Mobilube PTX 75W-90	17	Unirex N 3	66
Mobilith SHC 100	69	Mobiltemp SHC 460 Special	69	Mobilube S 80W-90	15	Univis HVI 13	33
Mobilith SHC 220	69	Mobiltherm 32	54	Mobilube Syn LS 75W-90	17	Univis HVI 26	34
Mobilith SHC 460	69	Mobiltherm 594	54	Mobilube XHP 75W-80	15	Univis N 32	33
Mobilith SHC 1000 Special	70	Mobiltherm 603	54	Mobilux EP 0	67	Univis N 46	33
Mobilith SHC 1500	69	Mobiltherm 605	54	Mobilux EP 004	67	Univis N 68	33
Mobilith SHC PM 220	64	Mobiltherm 610	54	Mobilux EP 023	67	Vacmul O3C	57
Mobilith SHC PM 460	64	Mobiltherm 611	54	Mobilux EP 1	68		
Mobilmet 422	56	Mobiltherm FM 32	60	Mobilux EP 2	68		
Mobilmet 423	56	Mobiltrans HD 10W	14	Mobilux EP 3	68		
Mobilmet 424	56	Mobiltrans HD 30	14	Nuto H 32	33		
Mobilmet 426	56	Mobiltrans HD 50	14	Nuto H 46	33		
Mobilmet 427	56	Mobiltrans MBT 75W-90	15	Nuto H 68	33		
Mobilmet 443	56	Mobiltrans SHC V 30	15	Nuto H 150	33		
Mobilmet 446	56	Mobilube 1 SHC 75W-90	14	Pegasus 610	52		
Mobilmet 447	56	Mobilube GX 80W-90	16	Pegasus 705	52		
Mobilmet 762	57	Mobilube GX-A 80W	16	Quintolubric 888-68	38		
Mobilmet 763	57	Mobilube HD 75W-90	16	Terrestic EP 46	23		
Mobilisol PM	71	Mobilube HD 80W-90	16	Terrestic T 32	22		
Mobilnac 325 NC	43	Mobilube HD 85W-140	17	Terrestic T 46	22		



# Automotive Lubricants

Passenger Vehicle Engine Oils	01
Commercial Engine Oils	07
Automatic Transmission Fluids	13
Automotive Gear Oils	14
Agricultural Oils	20
Motorcycle Oils	21







# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL 1 NEW LIFE 0W-40</b>	0W-40	78,3	14	186	0,85	230	MB 229.5, MB 229.3 VW 502 00, VW 505 00 BMW Longlife LL-01 Porsche Special Oil List GM LL-A-025 GM LL-B-025	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	Recommended by Saab
	<p><i>Ultimate Performance Synthetic Engine Oil with SuperSyn anti-wear technology. Engineered for the latest engine technology, it is the ideal product for newer vehicles or older vehicles in good condition, delivering our best all-round performance. Recommended for virtually all types of modern vehicles for ultimate protection and performance in even the most demanding driving conditions.</i></p>								
<b>MOBIL 1 0W-40</b>	0W-40	78,3	14	186	0,85	230	MB 229.5, MB 229.3 VW 502 00, VW 505 00 BMW Longlife LL-01 Porsche Special Oil List GM LL-A-025 GM LL-B-025	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	Recommended by Saab
	<p><i>Advanced Performance Synthetic Engine Oil with SuperSyn anti-wear technology providing outstanding cleaning power, excellent wear protection fuel savings and overall performance. Recommended for virtually all types of modern vehicles, especially high-performance turbo-charged, supercharged gasoline and diesel multi-valve fuel injected engines.</i></p>								
<b>MOBIL 1 ARCTIC 0W-40</b>	0W-40	78,3	14,3	187	0,85	230	MB 229.5, MB 229.3 VW 502 00, VW 503 01 VW 505 00 BMW Longlife LL-01 Porsche Special Oil List GM LL-A-025 GM LL-B-025	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	
	<p><i>Advanced Performance Synthetic Engine Oil with SuperSyn anti-wear technology. Designed to provide ultimate performance and protection under all operating condition, it is particularly suitable for extreme low temperature conditions. Recommended for all types of modern vehicles, especially high-performance turbo-charged, supercharged gasoline and diesel multi-valve fuel injected engines.</i></p>								
<b>MOBIL 1 PEAK LIFE 5W-50</b>	5W-50	104,6	17,4	184	0,86	228	MB 229.3 VW 505 00 Porsche Special Oil List	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	
	<p><i>Ultimate Performance Synthetic Engine Oil with SuperSyn anti-wear technology. Designed to balance the demands of newer and older vehicles by delivering great all-round performance, it provides excellent protection against engine deterioration and reduces engine wear by minimizing sludge and deposits build-up. Suitable for virtually all types of vehicles and operating conditions.</i></p>								



# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL 1 5W-50</b>	5W-50	104,6	17,4	184	0,86	228	MB 229.3 VW 505 00 Porsche Special Oil List	ACEA A3/B3, A3/B4	
	<p><i>Advanced Performance Synthetic Engine Oil with SuperSyn anti-wear technology, suitable for most types of severe driving conditions including high speed highway and stop and go city driving. Recommended for virtually all types of vehicles, suitable for use in high-performance turbo-charged, supercharged gasoline and diesel multi-valve fuel injected engines.</i></p>								
<b>MOBIL 1 ESP FORMULA 5W-30</b>	5W-30	72,8	12,1	164	0,85	254	BMW Longlife LL-04 MB 229.51, MB 229.31 VW 504 00, VW 507 00 Approved by PCA Peugeot Citroën Automobiles	Meets ACEA A3/B3, ACEA A3/B4, ACEA C2, ACEA C3, API CF. Meets the engine test requirements of ACEA A5/B5 and API SL/SM	Also recommended for applications requiring* VW 502 00 / 503 00 / 503 01 / 505 00 / 506 00 / 506 01 (* all VW engines with exception of Unit-Injector/Pumpe- Düse TDI without Longlife Service and without DPF between 1999-2003 and R5/ V10-TDi before model- year 2006)
	<p><i>Advanced Performance Synthetic Engine Oil designed to deliver outstanding performance, protection and improved fuel economy and to protect Emission Reduction Systems in both diesel and gasoline powered automobiles. Recommended for most types of modern automobile engines, especially the latest high-performance gasoline and diesel engines.</i></p>								
<b>MOBIL 1 5W-40</b>	5W-40	83,6	14,2	176	0,86	231	MB 229.3 Porsche Special Oil List VW 502 00, VW 505 00	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	
	<p><i>Advanced Performance Synthetic Engine Oil with SuperSyn anti-wear technology provides outstanding overall performance in all types of driving. Recommended for most types of modern vehicles, including high-performance turbo-charged, supercharged gasoline and certain diesel multi-valve fuel injected engines.</i></p>								
<b>MOBIL 1 EXTENDED LIFE 10W-60</b>	10W-60	152,7	22,7	177	0,86	234	MB-Approval 229.1 VW 505 00	API SM/ SL/SJ/CF ACEA A3/B3, A3/B4	
	<p><i>Ultimate Performance Synthetic Engine Oil with SuperSyn anti-wear technology. Engineered to provide extra protection for older engines, it is suitable for virtually all types of older vehicles and operating conditions.</i></p>								



# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL 1 FUEL ECONOMY 0W-30</b>	0W-30	54,2	10,2	178	0,85	228		API SL/SJ/CF, ACEA A1/ B1, A5/B5, Meets Engine Test Requirements of Ford WSS M2C913-A, Ford WSS M2C913-B	
	<i>Advanced Performance Synthetic Engine Oil with SuperSyn anti-wear technology. Designed to improve engine protection at start-up in very cold conditions and to reduce fuel consumption and CO<sub>2</sub> exhaust emissions. Recommended for virtually all types of modern vehicles, including high-performance turbo-charged, supercharged gasoline and diesel multi-valve fuel injected engines.</i>								
<b>MOBIL 1 TURBO DIESEL 0W-40</b>	0W-40	78,3	14	186	0,85	230	MB 229.5, MB 229.3 VW 505 00 BMW Longlife LL-01 GM LL-B-025	API CF ACEA A3/B3, A3/B4	
	<i>Advanced Performance Synthetic Diesel Engine Oil with SuperSyn anti-wear technology providing outstanding cleaning power, excellent wear protection, fuel savings and overall performance. Recommended for virtually all types of modern diesel engines, especially high-performance turbo-charged, supercharged diesel multi-valve fuel injected engines.</i>								
<b>MOBIL 1 TURBO DIESEL 5W-40</b>	5W-40	83,6	14,2	176	0,86	231	MB 229.3 VW 505 00	API CF ACEA A3/B3, A3/B4	
	<i>Advanced Performance Synthetic Diesel Engine Oil with SuperSyn anti-wear technology provides outstanding overall performance in all types of driving. Recommended for most types of modern vehicles, including high-performance turbo-charged, supercharged gasoline and certain diesel multi-valve fuel injected engines.</i>								





# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C			Approved	Meets	Quality Level
<b>MOBIL SUPER 3000 X1 5W-40</b>	5W-40	83,2	14,1	0,85	220	BMW Longlife Oil 98 MB 229.3 VW 505 00, VW 502 00 Porsche Special Oil List GM LL-B-025	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	
<b>MOBIL SUPER 2000 X1 10W-40</b>	10W-40	97	14,4	0,87	230	MB 229.1 VW 505 00	API SL/SJ/CF ACEA A3/B3	VW 500 00
<b>MOBIL SUPER 1000 X1 10W-40</b>	10W-40	97	14,4	0,87	230	MB 229.1 VW 505 00	API SL/SJ/CF ACEA A3/B3	VW 500 00
<b>MOBIL SUPER 1000 X1 15W-40</b>	15W-40	107	14,4			MB 229.1 VW 505 00	API SL/SJ/CF ACEA A3/B3	
<b>MOBIL SYNT S 5W-40</b>	5W-40	83,2	14,1	0,85	220	BMW Longlife Oil 98, MB-Approval 229.3, VW 505 00, VW 502 00, Porsche Special Oil List, GM LL-B-025	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	



# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C			Approved	Meets	Quality Level
<b>MOBIL SYST S 5W-40</b>	5W-40	83,2	14,1	0,85	220	MB 229.3 VW 505 00, VW 502 00 Porsche Special Oil List GM LL-B-025	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	BMW Longlife Oil 98
	<i>Superior Performance Synthetic Engine Oil designed to provide an outstanding level of protection and performance. Specifically recommended for use in most vehicles including high performance, turbo-charged gasoline and diesel passenger cars fitted with advanced computer controlled multi-valve fuel injection engines.</i>							
<b>MOBIL SUPER S 10W-40</b>	10W-40	97	14,4			MB 229.1 VW 505 00	API SL/SJ/CF ACEA A3/B3	VW 500 00
	<i>Premium Semi-Synthetic Engine Oil designed to provide a superior level of protection and performance. Recommended for normal to occasionally severe driving conditions in most types of engines.</i>							
<b>MOBIL FORMULA S 10W-40</b>	10W-40	97	14,4			MB 229.1 VW 505 00	API SL/SJ/CF ACEA A3/B3	VW 500 00
	<i>Premium Semi-Synthetic Engine Oil designed to provide a superior level of protection and performance. Recommended for normal to occasionally severe driving conditions in most high performance engines.</i>							
<b>MOBIL SUPER FE SPECIAL 5W-30</b>	5W-30	59	10,6	0,85	225		API SL ACEA A1/B1 Ford WSS M2C913-A Ford WSS M2C913-B	
	<i>Premium Synthetic Engine Oil specially developed for Ford gasoline and diesel engines with improved fuel economy and reduced exhaust emissions.</i>							
<b>MOBIL SUPER M 10W-40</b>	10W-40	97	14,4			VW 505 00 MB 229.1	API SL/SJ/CF ACEA A3/B3	VW 500 00
	<i>Premium Mineral Engine Oil designed to provide a high level of protection and performance. Recommended for daily driving under normal conditions in most types of gasoline and diesel vehicles.</i>							
<b>MOBIL SUPER M 15W-40</b>	15W-40	107	14,4			VW 505 00 MB 229.1	API SL/SJ/CF ACEA A3/B3	
	<i>Premium Mineral Engine Oil designed to provide a high level of protection and performance. Recommended for daily driving under normal conditions in most types of gasoline and diesel vehicles.</i>							
<b>MOBIL SUPER M 20W-50</b>	20W-50	171	19,1			VW 505 00 MB 229.1	API SL/SJ/CF ACEA A3/B3	
	<i>Premium Mineral Engine Oil designed to provide a high level of protection and performance. Recommended for daily driving under normal conditions in most types of gasoline and diesel vehicles.</i>							



# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C			Approved	Meets	Quality Level
<b>MOBIL MULTIGRADE 10W-40</b>	10W-40	97	14,4				ACEA A2/B2	API SH/CD
	<i>Quality Mineral Engine Oil for passenger vehicles</i>							
<b>MOBIL MULTIGRADE 15W-40</b>	15W-40	107	14,4				ACEA A2/B2	API SH/CD
	<i>Quality Mineral Engine Oil for passenger vehicles</i>							
<b>MOBIL SYST S SPECIAL V 5W-30</b>	5W-30	66,9	11,6	0,85	228	VW 505 00, VW 505 01 BMW Longlife LL-04	API CF/SL ACEA A3/B3 A3/B4 ACEA C3	Ford M2C917-A
	<i>Superior Performance Synthetic Diesel Engine Oil primarily intended for use in Volkswagen pump-jerk diesel engines requiring VW 505 01 approval.</i>							
<b>MOBIL SUPER S TURBO DIESEL 10W-40</b>	10W-40	97	14,4			MB 229.1 VW 505 00	API CF ACEA A3/B3	
	<i>Premium Semi-Synthetic Diesel Engine Oil designed to provide a superior level of protection and performance. Recommended for normal to occasionally severe driving conditions in naturally aspirated and turbo-charged diesel engines in passenger cars and light commercial vehicles.</i>							
<b>MOBIL SUPER M DIESEL 15W-40</b>	15W-40	107	14,4			VW 505 00 MB 229.1	API CF ACEA A3/B3	
	<i>Premium Mineral Diesel Engine Oil designed to provide a high level of protection and performance. Recommended for daily driving under normal conditions in most types of diesel vehicles.</i>							
<b>MOBIL MULTIGRADE DIESEL 15W-40</b>	15W-40	107	14,4					API CD, ACEA B2
	<i>Quality Mineral Diesel Engine Oil for passenger vehicles</i>							





Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL DELVAC 1 LE 5W-30</b>		74	12,2	161	0,855	-51	MB-Approval 228.51/228.5 MAN M 3477	ACEA E6/E4	
	<p><i>Mobil Delvac 1 LE 5W-30 is a fully synthetic supreme performance heavy duty diesel engine oil that helps to provide both engine and emission system protection while providing long drain capability and fuel economy potential for modern diesel engines, including those fitted with Diesel Particulate Filters (DPF). Mobil Delvac 1 LE 5W-30 utilizes state-of-the-art technology to deliver exceptional performance in modern low emission engines.</i></p>								
<b>MOBIL DELVAC 1 ESP 5W-40</b>		98	14,7	156	0,85	-48	Cummins CES 20081 Detroit Diesel Power Guard Oil Specification 93K218, 93K214 Mack EO-O Premium Plus, EO-N Premium Plus 03 MB-Approval 228.31 MB-Approval 228.3 Volvo VDS-4/VDS-3 Deutz DQC III-05 Twin Disc S364A	API CJ-4/CI-4 PLUS/ CI-4/CH-4/CG-4/SM/SL ACEA E7 Caterpillar ECF-3	
	<p><i>Mobil Delvac 1 ESP 5W-40 is a fully synthetic supreme performance heavy duty diesel engine oil that helps extend engine life while providing long drain capability and potential fuel economy for modern diesel engines operating in severe applications. Mobil Delvac 1 ESP utilizes state-of-the-art technology to deliver exceptional performance in modern low emission engines, including those with Exhaust Gas Recirculation (EGR) and Aftertreatment systems with Diesel Particulate Filters (DPF's) and Diesel Oxidation Catalysts (DOC's), as well as refrigerated units and older, well-maintained engines. Mobil Delvac 1 ESP 5W-40 is recommended for use in a wide range of heavy-duty applications and operating environments found in the on-road transport and off-road mining, construction, and agricultural industries. Mobil Delvac 1 ESP also meets the API SM specification for gasoline engines used in mixed fleets.</i></p>								



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL DELVAC 1 5W-40</b>	5W-40	102	14,8	151	0,854	-45	'MB-Approval 228.5 Volvo VDS-3/VDS-2 Cummins 20078/77/76/75 Mack EO-N Premium Plus 03, EO-M Plus Renault RVI RXD Scania LDF	API CI-4 PLUS/CI-4/ CH-4/CG-4/CF API SL/SJ ACEA E7/E4 Jaso DH-1 Global DHD-1 Cat ECF-1 DAF Extended Drain Cummins 20072/71 Detroit Diesel Power Guard Oil Specification 93K214 Ford WSS-M2C171-D	API CF-4
<b>MOBIL DELVAC 1 SHC 5W-40</b>	5W-40	87,9	14,5	172	0,86	-54	MAN M 3277 MB-Approval 228.5 Volvo VDS-2 MTU Type 3 Mack EO-M Renault RVI RXD ZF TE-ML 04C	API CF ACEA E4 DAF Extended Drain	API CE
<b>MOBIL DELVAC XHP ULTRA 5W-30</b>	5W-30	69,7	11,8	166	0,856	-45	MB- Approval 228.5		



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL DELVAC XHP LE 10W-40</b>	10W-40	85	13	153	0,865	-39	MB-Approval 228.51/228.5 MAN M 3277(CRT) MAN M 3477 Volvo VDS-3 Renault RVI RXD/RLD-2 Renault RVI RGD Scania Low Ash MTU Type 3.1	ACEA E7/E6/E4	
<b>MOBIL DELVAC XHP EXTRA 10W-40</b>	10W-40	89,1	13,2	149	0,867	-42	MB-Approval 228.5 MAN M 3277 Volvo VDS-3/VDS-2 MTU Type 3 Renault RVI RXD	API CF ACEA E7/E4 DAF Extended Drain	Cummins 20072
<b>MOBIL DELVAC MX EXTRA 10W-40</b>	10W-40	93	14,2	150	0,864	-33	MB-Approval 228.3/229.1 MAN M 3275 Volvo VDS-3/VDS-2 Renault RLD Cummins CES 20078/77/76 MACK EO-M PLUS MTU TYPE 1 Open Crankcase Only - ODI Up To 500 Hours	API CI-4/CH-4/CG-4/CF API SL/SJ ACEA E7	Cummins 20072/71 ACEA B4, B3, A2 DETROIT DIESEL 7SE 270 (4-STROKE CYCLE) API CF-4





Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL DELVAC XHP 10W-40</b>	10W-40	92,6	13,9	153	0,873	-30	MTU TYPE 2 MB-Approval 228.3 Volvo VDS-3 MAN M 3275 Scania LDF-2 RVI RLD-2 Cummins CES 20078 Mack EO-M PLUS	API CI-4 ACEA E7	
		<p><i>Mobil Delvac XHP 10W-40 is an extra high performance synthetic blend heavy duty diesel engine oil engineered to provide excellent protection to diesel engines used in severe on and off highway applications. This diesel engine oil is designed using high performance base oils which provide low temperature fluidity, high temperature viscosity retention, and volatility control. Recommended for use in engines of various manufacturers but specifically for extended oil drain intervals in Scania engines.</i></p>							
<b>MOBIL DELVAC MX ESP 15W-40</b>		114,0	15,0	137	0,876	-30	VOLVO VDS-4/VDS-3/ VDS-2 MB-Approval 228.31 MB-Approval 228.3 Cummins CES 20081 Mack EO-O Premium Plus Mack EO-N Premium Plus 03 Detroit Diesel Power Guard Oil Specification 93K218/93K214 Renault RVI RLD-3	API CJ-4/CI-4 PLUS/ CI-4/CH-4/CG-4/CF/ CF-2/SM/SL ACEA E7 Caterpillar ECF-3 JASO DH-2	API CF-4
		<p><i>Mobil Delvac MX ESP 15W-40 is a high performance low ash diesel engine oil for use in severe on and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Aftertreatment Systems with Diesel Particulate Filters (DPFs). Mobil Delvac MX ESP 15W-40 can also be used in older conventional engines. It meets the requirements of ACEA E7 and API CJ-4/CI-4 as well as key Original Equipment Manufacture (OEM) engine oil requirements such as Volvo VDS-4.</i></p>							



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL DELVAC MX 15W-40</b>	15W-40	105	14,2	138	0,88	-33	MAN M 3275 Volvo VDS-3/VDS-2 MB-Approval 228.3 Renault RLD Cummins CES 20078/77/76/75 MACK EO-M PLUS MTU TYPE 1 Open Crankcase Only - ODI Up To 500 Hours	API CI-4/CH-4/CG-4 API CF/SL/SJ ACEA E7 Cat ECF-2 Cummins CES 20072/71 DETROIT DIESEL 7SE 270 (4-STROKE CYCLE)	Allison C-4 ACEA B4, B3, A2 MACK EO-M API CF-4
<b>MOBIL DELVAC 1630</b>	30	90	11,5	117	0,889	-30	MB-Approval 228.2 MAN 270 MTU Type 2 ZF TE-ML 04B	API CF ACEA E2 JASO DH-1	API SF Allison C-4
<b>MOBIL DELVAC 1640</b>	40	132	14,7	112	0,892	-21	MB-Approval 228.2 MAN 270 MTU Type 2 ZF TE-ML 04B	API CF ACEA E2 JASO DH-1	API SF
<b>MOBIL DELVAC HYDRAULIC 10W</b>	10W	37	6,1	110	0,88	-30			API CD/SF Vickers 35VQ25
							<i>High performance hydraulic oil formulated from advanced base stocks and a balanced additive system for a wide range of heavy-duty hydraulic equipment requirements, on and off-highway. Contains an effective balance of ashless dispersants and metallic detergents combined with inhibitors to control oxidation, wear, corrosion and rust.</i>		
<b>MOBIL DELVAC 1320</b>	20	57,7	8,2	110	0,888	-24			API SF/CF
							<i>High performance, heavy duty diesel engine oil. Used in inter-cooled, turbo-charged engines operating under severe on and off-highway conditions. Used in a range of applications where a monograde lubricant is recommended.</i>		



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL DELVAC 1330</b>	30	101	11,6	99	0,811	-24			API SF/CF MB 227.0 Allison C-4
							<i>High performance, heavy duty diesel engine oil. Used in inter-cooled, turbo-charged engines operating under severe on and off-highway conditions. Used in a wide range of applications where a monograde lubricant is recommended.</i>		
<b>MOBIL DELVAC 1340</b>	40	142	14,3	99	0,815	-18			API SF/CF MB 227.0
							<i>High performance, heavy duty diesel engine oil. Used in inter-cooled, turbo-charged engines operating under severe on and off-highway conditions. Used in a wide range of applications where a monograde lubricant is recommended.</i>		
<b>MOBIL DELVAC 1350</b>	50	222	19,5	99	0,821	-15			API SF/CF
							<i>High performance, heavy duty diesel engine oil. Used in inter-cooled, turbo-charged engines operating under severe on and off-highway conditions. Used in a wide range of applications where a monograde lubricant is recommended.</i>		
<b>MOBIL DELVAC 1240</b>	40	158	15,5	99	0,899	-18			API CF/CF-2/SF
							<i>Mono-grade diesel engine oil for use in a wide range of applications where a monograde lubricant is recommended including 2-cycle diesel applications. For commercial vehicles and contractor equipment, gasoline engines of passenger cars and farming equipment.</i>		
<b>MOBIL DELVAC SUPER 1400 10W-30</b>		70	10,7	138	0,88	-27	Volvo VDS-2	API CH-4	API CG-4/CF-4/CF/SJ
	<i>High performance diesel engine oil that provides proven engine protection of diesel engines operating in on and off-highway severe service conditions. Recommended for use in a wide range of heavy-duty applications and operating environments found in the trucking, mining, construction, quarrying and agricultural industries.</i>								
<b>MOBIL DELVAC SUPER 1400 15W-40</b>	15W-40	103	13,9	136	0,885	-27	MB-Approval 228.3 MAN M 3275 Volvo VDS-2 RVI RD-2/RD MTU Type 2	API CG-4/CF/SJ ACEA A3/B3, A3/B4	API CF-4 ACEA E3



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL ATF SHC</b>		33	7,45	200	0,839	-51	MB-Approval 236.8/236.5, MAN 339 Typ V-2, MAN 339 Typ Z-2, Voith G1363 ZF TE-ML 09X/14B/16L		GM Dexron IIE Renk Doromat Caterpillar TO-2, Allison C-4
	<i>Fully synthetic ATF providing superior performance for passenger car and trucks. It is also recommended for manual transmissions designed to operate with ATF fluids. Also suitable for industrial applications where superior hydraulic or fluid power transmission is required,</i>								
<b>MOBIL DELVAC SYNTHETIC ATF</b>		220	27	153	0.88	-48	Allison TES-295 (AN - 051005)		
	<i>Mobil Delvac Synthetic ATF is recommended for use in modern high performance trucks, buses, utility vehicles, haulers, vans and other equipment requiring Allison TES-295 performance levels.</i>								
<b>MOBIL ATF 320</b>		35	8,1	217	0,86	-45	ZF TE-ML 4D/17C Voith G607		GM Dexron III G Renk Doromat Allison C-4
	<i>Extra high performance ATF recommended for most passenger and commercial vehicles automatic transmission. It is also recommended for power steering fluid application and some manual transmissions where ATF fluid is specified.</i>								
<b>MOBIL ATF 220</b>		37	7,1	158	0,87	-45	MB-Approval 236.7 ZF TE-ML 3D/4D/11A/14A/17C Voith G607 MAN 339 Typ V-1, MAN 339 Typ Z-1		GM Dexron IID Caterpillar TO-2 Renk Doromat GM Type A Suffix A Allison C-4 Ford M2C 163-A
	<i>High performance ATF recommended for vehicles specifying Dexron IID performance level as well as the related power steering systems. Also suitable for some special hydraulic systems having similar fluid specifications (consult manufacturer requirements),</i>								



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBILTRANS HD 10W</b>	10W	42	6,3	96	0,888	-30	ZF TE-ML 03C	CATERPILLAR TO-4	Allison C-4
	<i>Extra high performance, heavy duty transmission and drive-train lubricants to meet the specifications required by Caterpillar TO-4. Designed to optimise the performance of powershift transmissions, gearboxes and final drives. Provide excellent protection even in high pressure hydraulic systems.</i>								
<b>MOBILTRANS HD 30</b>	30	100	11,2	97	0,8929	-24	ZF TE-ML 03C/07F	CATERPILLAR TO-4	Allison C-4
	<i>Extra high performance, heavy duty transmission and drive-train lubricant to meet the specifications required by Caterpillar TO-4. Designed to optimise the performance of powershift transmissions, gearboxes and final drives. Provide excellent protection even in high pressure hydraulic systems.</i>								
<b>MOBILTRANS HD 50</b>	50	195	18	100	0,906	-15		CATERPILLAR TO-4	
	<i>Extra high performance, heavy duty transmission and drive-train lubricants to meet the specifications required by Caterpillar TO-4. Designed to optimise the performance of powershift transmissions, gearboxes and final drives. Provide excellent protection even in high pressure hydraulic systems.</i>								
<b>MOBILUBE 1 SHC 75W-90</b>	75W-90	102	15,1	156	0,87	-54	ZF TE-ML 02B/05B/12B/16F/17B/19C MAN M 3343 Typ S Volvo GO 101 MAN 341 Typ E3	API GL-4/GL-5/MT-1 Scania STO 1:0 ZF-TE-ML 07A	ZF-TE-ML 08
	<i>Fully synthetic, supreme performance commercial gear lubricant made with advanced base oils and additive systems. For heavy duty manual transmissions and rear axles that require lubricants with excellent load-carrying capability. Good thermal and oxidation stability, inherently high VI, extremely low pour point and improved low temperature fluidity.</i>								
<b>MOBIL DELVAC SYNTHETIC GEAR OIL 75W-90</b>	75W-90	120	15,9	140	0,86	-48	ArvinMerritor 0-76N MB-Approval 235.8 ZF TE-ML 05B/12B/16F/17B/19C International TMS-6816 DANA SHAES 256 Rev C MACK GO-J PLUS MAN 342 Typ M2 VOITH TURBO 3.325-340	API GL-5/MT-1 Scania STO 1:0 ZF-TE-ML 07A/08	Eaton E500 MIL-PRF-2105E, quality level but not approved
	<i>Fully synthetic transmission and axle oil for vehicles operating in severe service conditions.</i>								





Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL DELVAC SYNTHETIC GEAR OIL SHC 75W-140</b>	75W-140	182	25	170	0,891	-45		API GL-5 Scania STO 1:0	
	<i>Fully synthetic drivetrain lubricant meeting the demanding performance requirements of Scania STO 1:0 and API GL-5. For use in heavy-duty drivetrains that require lubricants with relatively high viscosity and excellent load-carrying capability and where extreme pressures and shock loading are expected.</i>								
<b>MOBILTRANS MBT 75W-90</b>	75W-90	96,3	14,7	159	0,848	-45	MB-Approval 235.11	API GL-4	
	<i>Fully synthetic manual transmission lubricant. Aims to provide long drain intervals for Mercedes Benz vehicles.</i>								
<b>MOBILTRANS SHC V 30</b>	30	65,2	10,3	144		-55	Volvo 97307 MAN 341 Typ VR MAN 341 Typ E4		
	<i>Fully synthetic manual transmission lubricant with excellent cold flow behaviour and oxidation stability. Exhibits excellent viscosity-temperature characteristics, low foam behaviour and good corrosion protection.</i>								
<b>MOBILUBE S 80W-90</b>	80W-90	144	15	105	0,9	-30	MAN M 3343 Typ M MAN 341 Typ E2 ZF-TE-ML 02B/05A/ 12E/16B/17B/19B MACK GO-J MB-Approval 235.0	API GL-4/GL-5/MT-1 ZF-TE-ML 07A/08 Scania STO 1:0 Arvin Meritor O76-D	MAN 341 Typ Z2 MAN 342 Typ M2
	<i>Extra high performance drivetrain lubricant engineered to provide optimum lubrication for state-of-the-art, heavy duty manual components used in on highway commercial vehicles and cars. Formulated using advanced base oils and additive systems that deliver excellent shifting performance, good low temperature fluidity and high temperature viscosity retention.</i>								
<b>MOBILUBE XHP 75W-80</b>	75W-80	52,2	9,5	168	0,871	-45	ZF TE-ML 02D MAN 341 Typ Z3 MAN 341 Typ E3	API GL-3/GL-4	
	<i>Mobilube XHP 75W-80 is an extra high performance synthetic blend manual transmission lubricant engineered for the latest European heavy duty manual transmissions used in on highway commercial vehicles and cars. This transmission lubricant is designed using select base oils and an advanced additive package that enhances shifting performance, low temperature fluidity, and high temperature viscosity retention. Mobilube XHP 75W-80 is formulated with extended performance reserve for applications requiring API GL-3/4 service.</i>								



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBILUBE GX-A 80W</b>	80W	76	10	104	0,89	-30	MB-Approval 235.1 MAN 341 Typ Z1 MAN 341 Typ E1 ZF-TE-ML 02A/17A	API GL-4 ZF-TE-ML 08	
	<i>Automotive gear lubricant formulated from high performance base oils and an advanced additive system. Used for commercial transmissions, axles and final drives where protection against wear and scoring is required. Provides excellent performance in Mercedes Benz applications and where API GL-4 is required.</i>								
<b>MOBILUBE GX 80W-90</b>	80W-90	135	14,5	104	0,89	-30		API GL-4	
	<i>High performance, heavy duty gear lubricant formulated from high quality base oils and an advanced additive system. For use in automotive heavy-duty transmissions, axles, and final drives where protection against wear and scoring is required. Provides excellent performance where API GL-4 is required.</i>								
<b>MOBILUBE HD 75W-90</b>	75W-90	103	16	166	0,885	-39		API GL-5	
	<i>Mobilube HD 75W-90 is an SAE 75W-90 synthetic blend product meeting the requirements of API GL-5. It has been formulated using a combination of high quality base fluids with a highly shear stable Viscosity Index Improver providing "stay in grade" performance.</i>								
<b>MOBILUBE HD-A PLUS 80W-90</b>	80W-90	131	14,3	105	0,901	-33	MB-Approval 235.20 MAN 342 Typ M2 ZF TE-ML 05A, 12E, 16B, 17B, 19B, 21A	API GL-5 Scania 1:0	
	<i>Engineered for commercial transmissions, axles, and final drives where extreme pressures and shock loading are expected providing exceptional performance where API GL-5 service is required. It is formulated from high performance base oils and an advanced additive system.</i>								
<b>MOBILUBE HD-A 85W-90</b>	85W-90	184	17	99	0,903	-24	MB-Approval 235.0 ZF TE-ML 05A/16C/17B/19B ZF TE-ML 21A MAN 342 Typ M1	API GL-5 ZF TE-ML-07A	
	<i>Heavy duty gear lubricant formulated from high performance base oils and an advanced additive system. For use in commercial transmissions, axles and final drives where extreme pressures and shock loading are expected. Provides exceptional performance where API GL-5 is required.</i>								
<b>MOBILUBE HD 80W-90</b>	80W-90	136	14,5	105	0,9	-30		API GL-5	
	<i>High performance, heavy duty gear lubricant formulated from high quality base oils and an advanced additive system. For use in automotive heavy-duty transmissions, axles, and final drives where protection against wear and scoring is required. Provides excellent performance where API GL-5 is required.</i>								



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBILUBE HD 85W-140</b>	85W-140	328	25,3	97	0,91	-18		API GL-5	
	<i>High performance, heavy duty gear lubricant formulated from high quality base oils and an advanced additive system. For use in automotive heavy-duty transmissions, axles, and final drives where protection against wear and scoring is required. Provides excellent performance where API GL-5 is required.</i>								
<b>MOBILUBE HD-N 80W-140</b>	80W-140	262	25,3	125	0,892	-30		API GL-5 Scania STO 1:0	
	<i>Extra high performance commercial gear lubricant. For use in heavy-duty transmissions, axles and final drives where extreme pressures and shock loading are expected. Provides excellent chemical and thermal stability at elevated bulk oil temperatures and good performance at low temperatures. Good rust performance resulting from water contamination and/or storage in wet conditions.</i>								
<b>MOBILUBE SYN LS 75W-90</b>		220	27	153	0.88	-48		API GL-5	
<b>MOBILUBE LS 85W-90</b>	85W-90	153	15,3	100	0,9	-36	ZF TE-ML 05C/12C/16E ZF TE-ML 21C	API GL-5	
	<i>Super premium, automotive gear lubricant formulated from selected high quality base oils and an optimum balance of additives designed for limited-slip applications. Provides reliable performance in cars and light commercial vehicles including taxicabs, trucks and buses where limited-slip capability is required.</i>								
<b>MOBILUBE PTX 75W-90</b>	75W-90	79	14,64	194,9	0,8485	-54		Recommended by Porsche for manual gearboxes for all 911 models and the front differentials fitted to 4WD 911's.	
	<i>Fully synthetic automotive gear oil providing outstanding performance in most manual transmissions as well as transaxle or hypoid axle applications. Recommended for Porsche transaxles due to its excellent low temperature fluidity.</i>								
<b>GEARLUBE VS 200</b>		73	14,4	210	0,86	-45	VW 501 50 API GL4 Approved by VW/Audi/ Seat/Skoda		
	<i>Fully synthetic high performance lubricant developed for specific requirements of passenger car manual transmissions and axle oils from VW/Audi/Seat/Skoda.</i>								



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>GEARLUBE VS 500</b>		177	25	174	0,86	-54	ZF TE-ML 05D/12D/16G	API GL-5	
	<p><i>Fully synthetic rear axle oil for use in hypoid axles with limited slip differentials in passenger cars and SUV vehicles. Can be used as a service fill for the rear axles of the Opel Frontera, Isuzu Trooper, Mitsubishi, Nissan, Toyota and other 4 wheel-drive vehicles with hypoid final drives and locked differentials. It is also specified for BMW axles with limited slip differentials - MSP/A (prescribed for the Z3 Roadster.</i></p>								
<b>GEARLUBE VS 600</b>		103,7	15,7	162	0,855	-51	MAN 342 Typ S-1	API GL-5	
	<p><i>Fully synthetic rear axle oil for use in hypoid axles. Specially formulated and approved by BMW for use in conventional ( non-limited slip) differentials. Suitable for other high performance applications where an API GL-5 gear lubricant is specified.</i></p>								



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL AGRI EXTRA 10W-40</b>	10W-40	85	13	150	0,88	-36	ZF TE-ML 06C/07B	MF M-1144	API CE/SF/GL-4 MF M-1139/1145 Allison C-4 (Agriculture applications only) Ford M2C 159B John Deere J27
	<i>Synthetic blend, extra high performance, multi-functional STOU lubricant for use in a wide range of severe duty applications and extreme operating environments found in the farming industry including many engines, transmissions, hydraulics, final drives and oil-immersed brakes.</i>								
<b>MOBIL AGRI SUPER 15W-40</b>	15W-40	96	14,2	140	0,88	-30	ZF TE-ML 06B/07B	MF M-1139/1144 John Deere J27 Ford M2C 159B	API CF-4/CF/SF/GL-4 ACEA E2 MF M-1145 Allison C-4 (Agriculture applications only) Caterpillar TO-2
	<i>High performance, multi-functional STOU lubricant for use in a wide range of heavy-duty applications and operating environments found in the farming industry including in many engines, transmissions, hydraulics, final drives and oil-immersed brakes.</i>								
<b>MOBILFLUID 422</b>		85	10,8	110	0,894	-30		API GL-4 ESN-M2C 86B MF M-1135	
	<i>Extra high performance multi purpose tractor lubricant for transmission and hydraulic fluid requirements. Used for service top-up and refill of transmissions, final drives and hydraulic systems of tractors and other mobile equipment with oil-immersed brake systems. Special frictional characteristics to prevent squawk and chatter in wet brake systems and for consistent braking performance.</i>								





Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBILFLUID 424</b>		55	9,3	145	0,88	-42	ZF-TE-ML 03E/05F/17E Volvo WB-101	API GL-4 FNHA-2C-201.00 MAT 3525 Kubota UDT	John Deere J20C Allison C-4 (Agriculture applications only) Caterpillar TO-2 Vickers 35VQ25 MF M-1135/1141 Denison HF-0/HF-1/ HF-2 (T5D & P46 pumps only) Ford ESN-M2C-134D Powerfluid 821 XL JI Case MS 1204-07/09
	<p><i>Extra high performance multi purpose tractor lubricants for transmission and hydraulic fluid requirements. Designed for off highway and commercial equipment operating in a wide range of environments and conditions. Excellent lubrication performance for drive trains of agricultural and construction equipment in severe duty applications. Suitable for reducing wet brake and Power Take-Off (PTO) chatter.</i></p>								
<b>MOBILFLUID 426</b>		59	9,7	149	0,889	-36	ZF-TE-ML 05F/06K/17E Volvo WB-101	API GL-4 FNHA-2C-201.00 MAT 3525 MF M-1143 Kubota UDT	John Deere J20C Allison C-4 (Agriculture applications only) Caterpillar TO-2 Vickers 35VQ25 MF M-1135/1141 Denison HF-0/HF-1/ HF-2 (T5D & P46 pumps only) Ford ESN-M2C-134D Powerfluid 821 XL JI Case MS 1204-07/09
	<p><i>Extra high performance power transmission fluid formulated for use in hydrodynamic gears and hydraulic systems typically found in railroad, marine, construction and industrial applications. Based on high performance basestocks and advanced additives to deliver transfer of power responsively. For heavy-duty, low and high speed applications.</i></p>								



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBIL 1 RACING 2T</b>		83	12,7	154	0,88	-42		API TC JASO FD/FC ISO E-GC/E-GD TISI SAE Grade 1 SAE Grade 2	
	<i>Fully synthetic, high performance motor oil for most types of high-powered 2-stroke motorcycle engines. Excellent thermal and oxidation stability. Helps to extend spark plug and valve life, to reduce ring sticking and piston tightening and to prevent pre-ignition.</i>								
<b>MOBIL SUPER 2T</b>		63	8,7	110	0,878	-12		API TC/TB JASO FB ISO E-GB	
	<i>High quality, mineral oil based 2-stroke engine oil for use in wide range of motorcycles, snowmobiles and lean oil/fuel ratio chain saws,</i>								

# Industrial Lubricants

Turbine and Circulation Oils	22	Cutting Fluids – Water Miscible	55
Slideway and Spindle Oils	31	Cutting Fluids – Neat	56
Hydraulic Oils	33	Rust Preventives	58
Cylinder Oils	39	Lubricants for the Food Industry - Oils	59
Industrial Gear Oils	40	Lubricants for food Industry - Greases	61
Refrigeration Oils	45	Textile Machine Oils	62
Compressor Oils	48	Paper Machine Circulation Oils	63
Air Tool Oils	50	Paper Machine Greases	64
Electrical Insulating Oils	51	Open Gear Lubrication (Grease)	65
Gas Engine Oils	52	Greases	66
Heat Transfer Oils	54	Specialty Products	71





Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>TERESSTIC T 32</b>	32	32	5,4	100	0,860	-30	222	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812101 China national standard GB 11120-89 L-TSA GE GEK 28143A GE GEK 46506D GE GEK 27070 GEC Alstom NBA 50001A Siemens Westinghouse PD-55125Z3 DIN 51515 L-TD JIS K-2213 type 2 with additives	
<b>TERESSTIC T 46</b>	46	46	6,8	100	0,870	-30	218	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812102 China national standard GB 11120-89 L-TSA GE GEK 28143A GEC Alstom NBA 50001A DIN 51515 L-TD JIS K-2213 type 2 with additives	
<b>TERESSTIC T 68</b>	68	68	8,5	95	0,870	-30	220	Alstom Power HTGD 90 117	DIN 51515 L-TD China national standard GB 11120-89 L-TSA JIS K-2213 type 2 with additives	



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>TERESSTIC T 100</b>	100	100	10,6	95	0,880	-27	242	Siemens TLV 9016 03	DIN 51515 L-TD	
	<i>High quality turbine and circulation system oil. Designed for steam and light duty stationary gas turbines. Also land-based and marine steam and hydro-turbines.</i>									
<b>TERESSTIC EP 46</b>	46	46		102	0,876	-12	228	Siemens TLV 9013 04	DIN 51515 L-TD	
	<i>High quality turbine and circulation oil. Primarily designed for use in steam, gas and water turbine applications. Also suitable for use in some air compressors.</i>									
<b>MOBIL DTE 832</b>	32	30	5,4	110	0,860	-30	224	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812101, 812106, 812108 GE GEK 28143A, GE GEK 32568C, 32568E and 32568F GE GEK 46506D, GE GEK 101941A GE GEK 107395 Siemens Westinghouse PD-55125Z3 Solar ES 9-224 Class II JIS K-2213 type 2 with additives DIN 51515 L-TG	
	<i>Very high quality zinc free turbine oil for use in steam turbines, gas turbines and combined gas turbines (CCGT) applications. Also for use in gas and steam turbines. Made from hydrotreated base stocks.</i>									





Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL DTE 846</b>	46	42	6,2	106	0,870	-30	244	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812102, 812107, 812109 GE GEK 28143A GEC Alstom NBA 50001A Solar ES 9-224 Class II JIS K-2213 type 2 with additives DIN 51515 L-TG DIN 51515 L-TD	
<b>MOBIL DTE 732</b>	32	30	5,4	110	0,850	-30	221	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812101 GE GEK 28143A GE GEK 27070 GE GEK 32568F GE GEK 46506D GE Alsthom NPA 50001A Siemens PD -55125Z3 China National Standard GB11120-89 L-TSA JIS K-2213 type 2 with additives ISO 8068 L-TGB ISO 8068 L-TGSB DIN 51515 L-TG DIN 51515 L-TD ASTM D4304 Rev A typ III and type I (2006)	



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL DTE 746</b>	46	44	6,8	106	0,860	-30	232	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Siemens Industrial Turbo Machinery MAT 812102 GE GEK 28143A GEC Alstom NPA 50001A China National Standard GB11120-89 L-TSA JIS K-2213 type 2 with additives SKODA TP 0010P/97 (CSN 65 6620) ISO 8068 L-TGB ISO 8068 L-TGSB DIN 51515 L-TG DIN 51515 L-TD ASTM D4304 Rev A typ III and type I (2006)	
<b>MOBIL DTE OIL LIGHT</b>	32	31	5,5	102	0,850	-18	218		GE GEK 28143A GE GEK 46506D GE GEK 27070 JIS K-2213 type 2 with additives DIN 51515 L-TD DIN 51524 L-HL DIN 51517 L-CL	
<b>MOBIL DTE OIL MEDIUM</b>	46	45	6,9	98	0,860	-15	221		GE GEK 28143A JIS K-2213 type 2 with additives DIN 51515 L-TD DIN 51524 L-HL DIN 51517 L-CL	



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL DTE OIL HEAVY MEDIUM</b>	68	65	8,7	95	0,870	-15	223		JIS K-2213 type 2 with additives DIN 51515 L-TD DIN 51524 L-HL DIN 51517 L-CL	
	<i>Premium performance circulation oil for steam and hydroturbine sets. Also for continuous lubrication of plain and roller bearings. High thermal stability and rapid separation from water.</i>									
<b>MOBIL SHC 824</b>	32	30	5,6	130	0,846	-54	240	Siemens TLV 9013 04 Alstom Power HTGD 90 117	Solar ES 9-224 Class I	
	<i>Fully synthetic turbine oil for the lubrication of stationary gas turbines. Very good low-temperature and viscosity/temperature properties and excellent oxidation stability. Effective protection against wear.</i>									
<b>MOBIL SHC 825</b>	46	44	7,5	130	0,848	-54	240	Siemens TLV 9013 04 Alstom Power HTGD 90 117 (gas turbines)	Solar ES 9-224 Class I	
	<i>Fully synthetic turbine oil for the lubrication of stationary gas turbines. Very good low-temperature and viscosity/temperature properties and excellent oxidation stability. Effective protection against wear.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL VACUOLINE 128</b>	150	150	14,8	96	0,890	-9	280		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	
<b>MOBIL VACUOLINE 133</b>	220	220	18,8	95	0,890	-6	288		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	
<b>MOBIL VACUOLINE 137</b>	320	320	23,9	95	0,900	-9	286		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	
<b>MOBIL VACUOLINE 146</b>	460	460	30,1	95	0,900	-6	296		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL VACUOLINE 148</b>	680	680	36,7	91	0,910	-6	318		Morgoil Advance Lubricant Specification Rev 2.3 26 Mar 2004 Morgoil Lubricant spec Rev 1.1 2006 DIN 51517 L-CL	
<b>MOBIL VACUOLINE 525</b>	I	93	10,7	99	0,880	-21	264		Morgan No Twist Rod Mill Lubricant Specification	
<b>MOBIL VACUOLINE 528</b>	150	146	14,4	96	0,890	-21	272			
<b>MOBIL VACUOLINE 533</b>	220	218	18,8	96	0,890	-18	284			
<b>MOBIL VACUOLINE 537</b>	320	325	24,4	96	0,900	-12	288			
<b>MOBIL VACUOLINE 546</b>	460	436	29,4	95	0,900	-15	286			





Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL SHC 624</b>	32	32	6,3	159	0,849	-54	230			
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and rolling element bearings.</i>									
<b>MOBIL SHC 626</b>	68	70	10,9	147	0,856	-54	230	Cincinnati Machine P-80		
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and rolling element bearings.</i>									
<b>MOBIL SHC 629</b>	ISO VG 150	143	18,3	144	0,862	-45	230	Flender BA 7300 Table A		
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and rolling element bearings.</i>									
<b>MOBIL SHC 630</b>	ISO VG 220	216	25,2	152	0,865	-39	238	Flender BA 7300 Table A Cincinnati Machine P-74		
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and rolling element bearings.</i>									
<b>MOBIL SHC 632</b>	320	326	38,6	169	0,866	-36	250	Flender BA 7300 Table A Cincinnati Machine P-59		
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and rolling element bearings.</i>									
<b>MOBIL SHC 634</b>	460	436	44,9	159	0,867	-36	262	Flender BA 7300 Table A Cincinnati Machine P-35		
	<i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and rolling element bearings.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL SHC 639</b>	1000	933	79,5	164	0,868	-15	270	Flender BA 7300 Table A Cincinnati Machine P-78		
<p><i>Synthetic gear and bearing lubricant. Designed for use in hot and cold conditions. Excellent thermal and oxidation stability for long service life. For use in industrial enclosed gear sets and in heavily loaded plain and rolling element bearings.</i></p>										



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL VELOCITE OIL NO 3</b>	2	2,1	0,95		0,802	-36	84	Cincinnati Machine P-65		
	<i>Premium performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>									
<b>MOBIL VELOCITE OIL NO 4</b>		4,8	1,53		0,822	-15	102			
	<i>Premium performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>									
<b>MOBIL VELOCITE OIL NO 6</b>	10	10	2,62		0,844	-15	180			
	<i>Premium performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>									
<b>MOBIL VELOCITE OIL NO 10</b>	22	22	22,1		0,862	-30	212			
	<i>Premium performance oil for the lubrication of high-speed spindles in machine tools. Good oxidation and thermal resistance. Good resistance to foaming and readily separates from water.</i>									
<b>MOBIL VACTRA OIL NO 1</b>	32	32	5,3	96	0,883	-9	218	Cincinnati Machine P-53		
	<i>Premium-quality lubricant for the lubrication of horizontal and vertical slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>									
<b>MOBIL VACTRA OIL NO 2</b>	68	68	8,6	96	0,883	-9	218	Cincinnati Machine P-47		
	<i>Premium-quality lubricant for the lubrication of horizontal and vertical slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>									
<b>MOBIL VACTRA OIL NO 3</b>	150	150	14,5	96	0,887	-9	230			
	<i>Premium-quality lubricant for the lubrication of horizontal and vertical slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL VACTRA OIL NO 4</b>	220	220	18,3	96	0,892	-6	242	Cincinnati Machine P-50		
<i>Premium-quality lubricant for the lubrication of horizontal and vertical slideways of modern machine tools. Outstanding stick-slip performance and rapid separation from water based cutting fluids.</i>										



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>NUTO H 32</b>	32	32	5,4	95	0,872	-24	212	Denison HF-0 Cincinnati P-68	DIN 51524 Part II ISO 11158 Type HM	Vickers I-286-S Vickers M-2950-S
	<i>Premium quality anti-wear hydraulic oil intended for industrial and mobile service applications, employing gear, vane, radial and axial piston pumps.</i>									
<b>NUTO H 46</b>	46	46	6,7	95	0,876	-21	226	Denison HF-0 Cincinnati P-69	DIN 51524 Part II ISO 11158 Type HM	Vickers I-286-S Vickers M-2950-S
	<i>Premium quality anti-wear hydraulic oil intended for industrial and mobile service applications, employing gear, vane, radial and axial piston pumps.</i>									
<b>NUTO H 68</b>	68	68	8,5	95	0,882	-18	234	Denison HF-0 Cincinnati P-70	DIN 51524 Part II ISO 11158 Type HM	Vickers I-286-S Vickers M-2950-S
	<i>Premium quality anti-wear hydraulic oil intended for industrial and mobile service applications, employing gear, vane, radial and axial piston pumps.</i>									
<b>NUTO H 150</b>	100	100	11,1	95	0,884	-15	242		DIN 51524 Part II ISO 11158 Type HM	
	<i>Premium quality anti-wear hydraulic oil intended for industrial and mobile service applications, employing gear, vane, radial and axial piston pumps.</i>									
<b>UNIVIS N 32</b>	32	32	6,4	151	0,873	-48	208		Vickers I-286-S Vickers M-2950-S DIN 51524 Part 3 ISO 11158 Type HV	Denison HF-0
	<i>Premium high performance anti-wear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.</i>									
<b>UNIVIS N 46</b>	46	46	8,2	152	0,875	-45	216		Vickers I-286-S Vickers M-2950-S DIN 51524 Part 3 ISO 11158 Type HV	Denison HF-0
	<i>Premium high performance anti-wear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.</i>									
<b>UNIVIS N 68</b>	68	68	11	152	0,883	-42	222		Vickers I-286-S Vickers M-2950-S DIN 51524 Part 3 ISO 11158 Type HV	Denison HF-0
	<i>Premium high performance anti-wear hydraulic oil that exhibits high VI. Can be used in a wide variety of industrial, mobile and marine applications.</i>									
<b>UNIVIS HVI 13</b>		14	5,3	384	0,872	-60	101			
	<i>Premium performance anti-wear hydraulic oil characterised by very high VI. Possess high resistance to viscosity change. Applications include severe hydraulic systems used in hydrostatic transmissions and dash pots, fine instruments and servo valves.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>UNIVIS HVI 26</b>		26	9,3	360	0,878	-60	103		ISO 6743-4 HV	
	<i>Premium performance anti-wear hydraulic oil characterised by very high VI. Possess high resistance to viscosity change. Applications include severe hydraulic systems used in hydrostatic transmissions and dash pots, fine instruments and servo valves.</i>									
<b>MOBIL PYROTEC HFD 46</b>	46	46					250 min			
	<i>Fire resistant phosphoric acid ester based HFD fluid. Designed especially for use in turbines and turbine control systems requiring HFD-R fluids.</i>									
<b>MOBIL EAL HYDRAULIC OIL 32</b>	32	32	7,1	195	0,91	< -39	> 320	RAL BLUE ANGEL RAL-UZ 79	WGK Non Water Hazardous ISO 15380 HEES Swedish standard SS 15 54 34	
	<i>High quality, anti-wear environmentally aware hydraulic oil. Used in a wide range of mobile equipment in moderate service conditions.</i>									
<b>MOBIL EAL HYDRAULIC OIL 46</b>	46	46	9,6	160	0,917	< -30	300	RAL BLUE ANGEL RAL-UZ 79	WGK Non Water Hazardous ISO 15380 HEES Swedish standard SS 15 54 34	
	<i>High quality, anti-wear environmentally aware hydraulic oil. Used in a wide range of mobile equipment in moderate service conditions.</i>									
<b>MOBIL SHC 522</b>	15	15	3,6	135	0,855	-54	210			
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									
<b>MOBIL SHC 524</b>	32	32	6,4	144	0,852	-54	234	Denison HF-0/HF-1/ HF-2 Cincinnati P-68		
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									





Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL SHC 525</b>	I	46	8,5	154	0,851	-54	238	Denison HF-0/HF-1/ HF-2 Cincinnati P-70		
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									
<b>MOBIL SHC 526</b>	68	68	11,5	158	0,854	-48	216	Denison HF-0/HF-1/ HF-2 Cincinnati P-69		
	<i>Synthetic high performance anti-wear hydraulic oil. Very high VI for excellent low and high temperature performance. Maximum anti-wear protection for vane and piston pumps. Wide range of operating temperatures and shear stable.</i>									
<b>MOBIL DTE 21</b>	10	10	2,7	85 min	0,845	< -24	> 166	Denison HF-0 Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									
<b>MOBIL DTE 22</b>	22	21	4,5	98	0,860	-30	200	Denison HF-0 Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									
<b>MOBIL DTE 24</b>	32	31	5,3	98	0,871	-27	220	Denison HF-0/HF-1/ HF-2 Vickers I-286-S Vickers M-2950-S Cincinnati P-68	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									
<b>MOBIL DTE 25</b>	46	44	6,6	98	0,876	-27	232	Denison HF-0/HF-1/ HF-2 Vickers I-286-S Vickers M-2950-S Cincinnati P-70	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL DTE 26</b>	68	71	8,5	98	0,881	-21	236	Denison HF-0/HF-1/ HF-2 Vickers I-286-S Vickers M-2950-S Cincinnati P-69	DIN 51524 Part 2 ISO 11158 Type HM	
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									
<b>MOBIL DTE 27</b>	100	100	10,9	95 min	0,887	< -15	212 min			
	<i>Premium quality anti-wear industrial hydraulic fluid. Optimum balance of high quality base stocks with anti-wear agents for maximised keep clean and anti-wear protection. Long service life and good filterability even in the presence of water.</i>									
<b>MOBIL DTE 11M</b>	15	15	3,7	140	0,859	-42	188	Denison HF-0 Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 3 ISO 11158 Type HV	
	<i>Supreme performance high VI anti-wear hydraulic oil. Optimum flow properties even at sub-zero temperatures. Shear stable for long service life. Maximised keep clean and anti-wear performance.</i>									
<b>MOBIL DTE 13M</b>	32	32	6,1	141	0,874	-45	210	Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 3 ISO 11158 Type HV	
	<i>Supreme performance high VI anti-wear hydraulic oil. Optimum flow properties even at sub-zero temperatures. Shear stable for long service life. Maximised keep clean and anti-wear performance.</i>									
<b>MOBIL DTE 15M</b>	I	46	7,9	141	0,879	-42	216	Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 3 ISO 11158 Type HV	
	<i>Supreme performance high VI anti-wear hydraulic oil. Optimum flow properties even at sub-zero temperatures. Shear stable for long service life. Maximised keep clean and anti-wear performance.</i>									
<b>MOBIL DTE 16M</b>	68	68	10	141	0,884	-45	218	Vickers I-286-S	DIN 51524 Part 3 ISO 11158 Type HV	
	<i>Supreme performance high VI anti-wear hydraulic oil. Optimum flow properties even at sub-zero temperatures. Shear stable for long service life. Maximised keep clean and anti-wear performance.</i>									
<b>MOBIL DTE 18M</b>	100	100	12,8	124	0,888	-36	228			
	<i>Supreme performance high VI anti-wear hydraulic oil. Optimum flow properties even at sub-zero temperatures. Shear stable for long service life. Maximised keep clean and anti-wear performance.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL DTE 19M</b>	150	150	16,6	118	0,895	-36	268			
<p><i>Supreme performance high VI anti-wear hydraulic oil. Optimum flow properties even at sub-zero temperatures. Shear stable for long service life. Maximised keep clean and anti-wear performance.</i></p>										
<b>MOBIL DTE EXCEL 32</b>	32	32	5,4	97	0,873	-33	200	Denison HF-0 Vickers I-286-S Vickers M-2950-S Cincinnati P-68	DIN 51524 Part 2 ISO 11158 Type HM	
<p><i>Premium quality, zinc-free anti-wear hydraulic oil. Unique additive systems gives outstanding thermal, oxidative and hydrolytic stability, even in the presence of water and waterbased cutting fluids.</i></p>										
<b>MOBIL DTE EXCEL 46</b>	46	46	6,5	97	0,877	-33	226	Denison HF-0 Vickers I-286-S Vickers M-2950-S Cincinnati P-70	DIN 51524 Part 2 ISO 11158 Type HM	
<p><i>Premium quality, zinc-free anti-wear hydraulic oil. Unique additive systems gives outstanding thermal, oxidative and hydrolytic stability, even in the presence of water and waterbased cutting fluids.</i></p>										
<b>MOBIL DTE EXCEL 68</b>	68	68	8,5	97	0,883	-33	207	Denison HF-0 Vickers I-286-S Vickers M-2950-S Cincinnati P-69	DIN 51524 Part 2 ISO 11158 Type HM	
<p><i>Premium quality, zinc-free anti-wear hydraulic oil. Unique additive systems gives outstanding thermal, oxidative and hydrolytic stability, even in the presence of water and waterbased cutting fluids.</i></p>										
<b>MOBIL DTE EXCEL 100</b>	100	95	10,8	97	0,885	-24	201	Denison HF-0 Vickers I-286-S Vickers M-2950-S	DIN 51524 Part 2 ISO 11158 Type HM	
<p><i>Premium quality, zinc-free anti-wear hydraulic oil. Unique additive systems gives outstanding thermal, oxidative and hydrolytic stability, even in the presence of water and waterbased cutting fluids.</i></p>										
<b>MOBIL DTE EXCEL 150</b>	150	150	14,5	95	0,889	-24	238	Denison HF-0 Vickers I-286-S Vickers M-2950-S		
<p><i>Premium quality, zinc-free anti-wear hydraulic oil. Unique additive systems gives outstanding thermal, oxidative and hydrolytic stability, even in the presence of water and waterbased cutting fluids.</i></p>										



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>QUINTOLUBRIC 888-68</b>	68	68	11,5	165	0,911	-24				
<i>High performance fire resistant hydraulic fluid. Based on synthetic polyolester basestocks HF-DU type. Good compatibilty with elastomers. Used where fire hazard and environmental considerations are important.</i>										



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL 600 W SUPER CYLINDER OIL</b>	460	460	30,5	95	0,907	-6	282			
	<i>Extra high performance, high viscosity oil for steam cylinders. Lubrication of high load and slow moving bearings and gears. Also suitable for use in worm gears.</i>									
<b>MOBIL EXTRA HECLA SUPER CYLINDER OIL</b>	1000	1000	42	80	0,925	3	288			
	<i>Extra high performance, high viscosity oil for steam cylinders. Lubrication of high load and slow moving bearings and gears. Also suitable for use in worm gears.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGEAR 600 XP 68</b>	68	68	8,8	101	0,88	-27	230		AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-2	
	<i>Extra high performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>									
<b>MOBILGEAR 600 XP 100</b>	100	100	11,2	97	0,884	-24	230	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-3	
	<i>Extra high performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>									
<b>MOBILGEAR 600 XP 150</b>	150	150	14,7	97	0,888	-24	230	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-4	
	<i>Extra high performance gear oil having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>									
<b>MOBILGEAR 600 XP 220</b>	220	220	19	97	0,894	-24	240	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E02-EP DIN 51517-3 ISO 12925-1 Type CKD Textron Type E-5	
	<i>Extra high performance gear oils having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>									
<b>MOBILGEAR 600 XP 320</b>	320	320	24,1	98	0,900		240	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E06-EP DIN 51517 CLP (2004) ISO 12925-1 Type L-CKD	
	<i>Extra high performance gear oil having outstanding extreme pressure characteristics and load-carrying properties. Intended for use in all types of enclosed gear drives with circulation or splash lubrication systems.</i>									





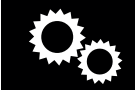
Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGEAR 600 XP 460</b>	460	460	30,6	98	0,904		240	Flender BA 7300 Table A Müller-Weingarten DT 55 005	AGMA 9005-E07-EP DIN 51517 CLP (2004) ISO 12925-1 Type CKC	
<b>MOBILGEAR 600 XP 680</b>	680	680	36,4	98	0,914		240	Flender BA 7300 Table A	AGMA 9005-E08-EP DIN 51517 CLP (2004) ISO 12925-1 Type CKC	
<b>MOBILGEAR XMP 100</b>	100	100	11,1	96	0,890	-30	250	Flender BA 7300 Table A	DIN 51517-3 ISO 12925-1 Type CKC	
<b>MOBILGEAR XMP 150</b>	150	150	14,6	96	0,896	-27	258	Flender BA 7300 Table A	DIN 51517-3 ISO 12925-1 Type CKC	
<b>MOBILGEAR XMP 220</b>	220	220	18,8	96	0,900	-24	265	Flender BA 7300 Table A	AGMA 9005-D94 5-EP DIN 51517-3 ISO 12925-1 Type CKC	
<b>MOBILGEAR XMP 320</b>	320	320	24,1	96	0,903	-18	268	Flender BA 7300 Table A	AGMA 9005-D94 6-EP DIN 51517-3 ISO 12925-1 Type CKC	



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGEAR XMP 460</b>	460	460	30,6	96	0,907	-12	270	Flender BA 7300 Table A	AGMA 9005-D94 7-EP DIN 51517-3 ISO 12925-1 Type CKC	
	<p><i>Extra high performance industrial gear oils for extreme conditions. Recommended for heavily loaded gearboxes with surface-hardened tooth metallurgies subject to micropitting.</i></p>									
<b>MOBILGEAR SHC XMP 150</b>	150	150	20,7	161	0,855	-48	240		AGMA 9005-D94 4S DIN 51517-3	
	<p><i>Supreme performance, fully synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.</i></p>									
<b>MOBILGEAR SHC XMP 220</b>	220	220	27,8	163	0,859	-45	240		AGMA 9005-D94 5S DIN 51517-3	
	<p><i>Supreme performance, fully synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.</i></p>									
<b>MOBILGEAR SHC XMP 320</b>	320	335	38,3	164	0,860	-39	240		AGMA 9005-D94 6S DIN 51517-3	
	<p><i>Supreme performance, fully synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.</i></p>									
<b>MOBILGEAR SHC XMP 460</b>	460	460	48,7	166	0,863	-36	240		AGMA 9005-D94 7S DIN 51517-3	
	<p><i>Supreme performance, fully synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.</i></p>									
<b>MOBILGEAR SHC XMP 680</b>	680	680	65,3	168	0,866	-30	240		AGMA 9005-D94 8S DIN 51517-3	
	<p><i>Supreme performance, fully synthetic industrial gear oil designed to provide optimum equipment protection and oil life even under extreme conditions. Designed to provide excellent protection against conventional wear modes such as scuffing but also provides a high level of resistance against micropitting fatigue. Recommended for enclosed industrial gear drives including steel-on-steel spur, helical, and bevel gears.</i></p>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILTAC 325 NC</b>		5000 with solvent	1600 without solvent		0,960		> 120 with solvent			
	<i>High quality, diluent-type lubricant for lubrication of large, slow moving, heavily loaded open gears. Resistant to rain, snow and process water washing.</i>									
<b>MOBILTAC 375 NC</b>		5000 with solvent	1600 without solvent		0,960		> 120 with solvent			
	<i>High quality, diluent-type lubricant for lubrication of large, slow moving, heavily loaded open gears. Resistant to rain, snow and process water washing.</i>									
<b>MOBILGEAR SHC 3200</b>	3200	3025	171	165	0,883	-12	240			
	<i>Very high viscosity, extra heavy-duty synthetic lubricant for low speed, enclosed industrial gears and plain and rolling bearings. Does not contain any solvent.</i>									
<b>MOBILGEAR SHC 6800</b>	I	8100	357	175	0,897		240			
	<i>Very high viscosity, extra heavy-duty synthetic lubricant for low speed, enclosed industrial gears and plain and rolling bearings. Does not contain any solvent.</i>									
<b>MOBILGEAR SHC 22M</b>		22000	700	180	0,89	6	240			
	<i>Synthetic, supreme performance, ultra high viscosity lubricant intended for use in heavily loaded open gears. Can be pumped over long distances and can use standard spray application equipment. Does not contain any solvent.</i>									
<b>MOBILGEAR SHC 46M</b>		46000	1375	180	0,924	15	240			
	<i>Synthetic, supreme performance, ultra high viscosity lubricant intended for use in heavily loaded open gears. Can be pumped over long distances and can use standard spray application equipment. Does not contain any solvent.</i>									
<b>MOBIL GLYGOYLE 11</b>		85	11,5	137		-45	226			
	<i>High performance, poly-alkylene-glycol (PAG) based lubricant. For use in extreme temperature gear, bearing and circulation applications. Not miscible with mineral oils.</i>									
<b>MOBIL GLYGOYLE 22</b>	I	177	25,1	173		-42	229			
	<i>High performance, poly-alkylene-glycol (PAG) based lubricant. For use in extreme temperature gear, bearing and circulation applications. Not miscible with mineral oils.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL GLYGOYLE 30</b>	220	224	30,9	181		-42	221			
	<i>High performance, poly-alkylene-glycol (PAG) based lubricant. For use in extreme temperature gear, bearing and circulation applications. Not miscible with mineral oils.</i>									
<b>MOBIL GLYGOYLE 220</b>	220	220	38,1	225	1,077	-30	270			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Plain and rolling contact bearings in wide variety of applications.</i>									
<b>MOBIL GLYGOYLE 320</b>	320	320	55,2	240	1,077	-30	270			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Plain and rolling contact bearings in wide variety of applications.</i>									
<b>MOBIL GLYGOYLE 460</b>	460	460	78,2	253	1,076	-30	265			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Plain and rolling contact bearings in wide variety of applications.</i>									
<b>MOBIL GLYGOYLE 680</b>	680	680	113	267	1,076	-30	265			NSF H1 registered
	<i>Fully synthetic, high performance polyalkylene glycol (PAG) worm gear lubricant. Provide excellent EP/anti-wear protection, corrosion and rust protection and foam resistance. Compatible with most seals and gaskets, but not with mineral oils. Plain and rolling contact bearings in wide variety of applications.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>GARGOYLE ARCTIC SHC 224</b>	32								FDA 21 CFR 178.3570	NSF H1 registered
	<i>Fully synthetic, supreme performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia, R-22 and other HCFCs and carbon dioxide.</i>									
<b>GARGOYLE ARCTIC SHC 226E</b>	68	67	10,1	136	0,835	-45	266			NSF H1 registered
	<i>Fully synthetic, supreme performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia, R-22 and other HCFCs and carbon dioxide.</i>									
<b>GARGOYLE ARCTIC SHC 228</b>	100	97	13,7	147	0,838	-45	255			NSF H1 registered
	<i>Fully synthetic, supreme performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia, R-22 and other HCFCs and carbon dioxide.</i>									
<b>GARGOYLE ARCTIC SHC 230</b>	220	220	25	149	0,846	-39	260		FDA 21 CFR 178.3570	NSF H1 registered
	<i>Fully synthetic, supreme performance lubricant, specifically designed for use in refrigeration compressors and heat pumps. Outstanding resistance to thermal/oxidative degradation. Suitable for use with Ammonia, R-22 and other HCFCs and carbon dioxide.</i>									
<b>GARGOYLE ARCTIC SHC NH 68</b>	68	64	8,5	111	0,850	-54	211			
	<i>Fully synthetic refrigeration compressor oil blended with PAO and alkyl benzene basestocks. Recommended for screw and reciprocating compressors, using ammonia as refrigerant.</i>									
<b>GARGOYLE ARCTIC OIL 155</b>	32	32			0,910	< -33	166 min			
	<i>High performance naphthenic mineral oil for refrigeration compressors. Low pour point and excellent fluidity at very low temperatures. Food freezing, cold storage plants and marine applications. For ammonia refrigerant but also selected halocarbons. Not for HFC refrigerants.</i>									
<b>GARGOYLE ARCTIC C HEAVY</b>	46	46			0,910	< -33	170 min			
	<i>High performance naphthenic mineral oil for refrigeration compressors. Low pour point and excellent fluidity at very low temperatures. Food freezing, cold storage plants and marine applications. For ammonia refrigerant but also selected halocarbons. Not for HFC refrigerants.</i>									



# Refrigeration Oils



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>GARGOYLE ARCTIC OIL 300</b>	68	68			0,910	< -30	180 min			
	<p><i>High performance naphthenic mineral oil for refrigeration compressors. Low pour point and excellent fluidity at very low temperatures. Food freezing, cold storage plants and marine applications. For ammonia refrigerant but also selected halocarbons. Not for HFC refrigerants.</i></p>									
<b>MOBIL EAL ARCTIC 15</b>	15	16	3,6	108	1,020	-60	236			
	<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i></p>									
<b>MOBIL EAL ARCTIC 22</b>	22	23	4,6	130	1,000	-57	236			
	<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i></p>									
<b>MOBIL EAL ARCTIC 22CC</b>	22	24	4,8	129	0,991	-54	235			
	<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation. Mobil EAL Arctic 22CC is for Copeland compressors.</i></p>									
<b>MOBIL EAL ARCTIC 32</b>	32	34	5,8	115	0,985	-48	236			
	<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i></p>									
<b>MOBIL EAL ARCTIC 46</b>	46	46	7,3	104	0,975	-42	235			
	<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i></p>									





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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL EAL ARCTIC 68</b>	68	65	8,3	101	0,976	-36	240			
<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i></p>										
<b>MOBIL EAL ARCTIC 100</b>	100	98	10,5	92	0,966	-30	250			
<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i></p>										
<b>MOBIL EAL ARCTIC 220</b>	220	220	18,5	90	0,960	< -21	250			
<p><i>Fully synthetic, high performance Environmental Awareness Lubricant (EAL) for refrigeration compressors using ozone-friendly HFC refrigerants. Based on synthesised polyol esters (POEs). Miscible with HFC refrigerants. Suitable for household and commercial refrigeration and air conditioning systems in shopping malls and hotels and low temperature transportation.</i></p>										
<b>MOBIL ZERICE S 32</b>	32	32			0,910	-42	190			
<p><i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i></p>										
<b>MOBIL ZERICE S 46</b>	46	46	5,7		0,865	-36	172			
<p><i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i></p>										
<b>MOBIL ZERICE S 68</b>	68	64	6,5		0,870	-33	186			
<p><i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i></p>										
<b>MOBIL ZERICE S 100</b>	100	98	8,1		0,870	-30	196			
<p><i>Synthetic, premium quality refrigeration compressor oil. Based on alkyl benzenes. For a range of industrial reciprocating and rotary compressors with fluorocarbon refrigerants such as R502 and R12.</i></p>										



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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL RARUS SHC 1024</b>	32	32	5.6	127	0,846	-39	245			
	<i>Fully synthetic, supreme performance oil for the lubrication of rotary screw and vane air compressors. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
<b>MOBIL RARUS SHC 1025</b>	46	46	7.2	131	0.849	-48	236			
	<i>Fully synthetic, supreme performance oil for the lubrication of rotary screw and vane air compressors. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
<b>MOBIL RARUS SHC 1026</b>	68	67	10.4	144	0,854	-45	246			
	<i>Fully synthetic, supreme performance oil for the lubrication of rotary screw and vane air compressors. Reduced deposit formation. Stationary and mobile applications. Long service life.</i>									
<b>MOBIL RARUS 827</b>	100	107	10,1	66	0,945	-36	270			
	<i>Synthetic, supreme performance air compressor oil. For use for severe duty reciprocating air compressors. Stationary and mobile equipment.</i>									
<b>MOBIL RARUS 829</b>	150	150	13,2	77	0,976	-39	270			
	<i>Synthetic, supreme performance air compressor oil. For use for severe duty reciprocating air compressors. Stationary and mobile equipment.</i>									
<b>MOBIL RARUS 424</b>	32	32	5,4	106	0,866	-33	236		DIN 51506 VD-L (approved RWTUEV)	
	<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>									
<b>MOBIL RARUS 425</b>	46	46	6,9	105	0,873	-30	238		DIN 51506 VD-L (approved RWTUEV)	
	<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>									
<b>MOBIL RARUS 426</b>	68	68	8,9	103	0,877	-36	266		DIN 51506 VD-L (approved RWTUEV)	
	<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>									



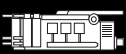
Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL RARUS 427</b>	100	106	11,6	98	0,879	-21	264		DIN 51506 VD-L (approved RWTUEV)	
		<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>								
<b>MOBIL RARUS 429</b>	150	147	14,7	99	0,886	-27	278		DIN 51506 VD-L (approved RWTUEV)	
		<i>Premium performance ashless air compressor oil. Single and multistage air compressors. Suitable for reciprocating and rotary type machines. Excellent wear protection. Stationary and mobile applications.</i>								



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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL ALMO 525</b>	46	46	7.3	105	0.883	-24	188		Ingersoll Rand (Rock drill oil light) Ingersoll Rand (Rock drill oil extra light)	
	<i>Premium quality, high performance lubricant, suitable for pneumatically operated rock drills in underground and surface mining operations. Suitable for both percussive and rotary type tools.</i>									
<b>MOBIL ALMO 527</b>	100	113	11.4	91	0.899	-30	204		Ingersoll Rand (Rock drill oil medium) Ingersoll Rand (Rock drill oil light)	
	<i>Premium quality, high performance lubricant, suitable for pneumatically operated rock drills in underground and surface mining operations. Suitable for both percussive and rotary type tools.</i>									
<b>MOBIL ALMO 529</b>	320	326	38,6	169	0,866	-36	250			
	<i>Premium quality, high performance lubricant, suitable for pneumatically operated rock drills in underground and surface mining operations. Suitable for both percussive and rotary type tools.</i>									

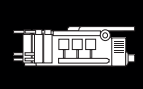


Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILECT 39</b>		9,5			0.883 (density at 20°C)	-54	148		IES 60296-03 (U) (ASTM D1275B / CIGRE corrosion specification)	
	<i>High quality mineral uninhibited insulating oil with very good dielectric properties and oxidation stability intended for transformers, switchgears and other electrical equipment.</i>									
<b>MOBILECT 44</b>		7,6			0.877 (density at 20°C)	-63	146		ANSI /ASTM D3487 type II IEC 60296 -03 (I)	
	<i>High quality mineral oil insulating oil with very good dielectric properties and oxidation stability for transformers, switch gears and other electrical equipment. Inhibited to improve oxidation resistance.</i>									



Brand name	ISO VG	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
			40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL PEGASUS 1</b>		15W-40	94	13,1	137	0,854	-48	238	MAN M 3271-1 MAN M 3271-2 Deutz MWM Waukesha Cogeneration VOLVO CNG FUELED BUS ENGINES MB 226.9		Wartsila NSD W25SG
	<i>TBN = 6,5. Ash = 0,48% Synthetic, high performance gas engine oil. For most demanding naturally aspirated and turbocharged stoichiometric and lean-burn gas engines.</i>										
<b>MOBIL PEGASUS 1005</b>		40	125	13,6	100	0,850	-15	247	Caterpillar GE Jenbacher Deutz Power Systems Wartsila MAK		
	<i>TBN = 5. Ash = 0,5%. High performance gas engine oil providing today's high output, low-emission four-cycle gas engines with the highest levels of protection. Pegasus 1005 detergent-dispersant system controls the formation of carbon and varnish deposits to minimize oil consumption and maintain engine cleanliness even during extended drain intervals.</i>										
<b>MOBIL PEGASUS 801</b>	S	40	132	13,2	97	0,886	-15	249			
	<i>TBN = 2,8. Ash = 0,1% Premium performance, low ash gas engine oil for natural, sweet gas and other gases with low sulphur content.</i>										
<b>MOBIL PEGASUS 801 30</b>		30	85	10	97	0,882	-15	238	Dresser Rand Category I / II / III		
	<i>TBN = 2,8. Ash = 0,1% Premium performance, low ash gas engine oil. For engines operating at low, medium and high speeds where low ash or ashless oils are recommended.</i>										
<b>MOBIL PEGASUS 805</b>	S	40	130	13,5	99	0,890	-12	262	Deutz MWM Wartsila		Jenbacher Caterpillar Waukesha
	<i>TBN = 6,2. Ash = 0,5% Premium performance gas engine oil. For high output 4-stroke engines.</i>										





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			40°C	100°C					Approved	Meets	Quality Level
<b>PEGASUS 705</b>		40	126	13,2	98	0,887	-15	252	Wartsila MTU MAN		Caterpillar Deutz Jenbacher
	<i>TBN = 5,6. Ash = 0,52% High quality gas engine oil for medium and high speed gas engines under heavy duty operation, with high neutralisation capacity.</i>										
<b>MOBIL PEGASUS 705 30</b>		30	94	10,8	98	0,881	-21	238			Caterpillar
	<i>TBN = 5,6. Ash = 0,54% Premium performance gas engine oil for natural gas fuels.</i>										
<b>MOBIL PEGASUS 710</b>	S	40	128	13,2	98	0,896	-15	249			Jenbacher Waukesha
	<i>TBN = 6,5. Ash = 0,94% High performance gas engine oil for mildly aggressive biogases.</i>										
<b>MOBIL PEGASUS 605</b>	S	40	129	13,4	96	0,887	-18	255	MDE		Deutz Caterpillar Waukesha
	<i>TBN = 7.1. Ash = 0,5% High performance gas engine oil for medium and high speed 4-stroke engines operating on corrosive fuel such as hydrogen sulphide and halogens.</i>										
<b>PEGASUS 610</b>	S	40	132	13,6	98	0,889	-18	257	Jenbacher MAN		Wartsila Waukesha
	<i>TBN = 11,1. Ash = 1,0% High performance gas engine oil for medium and high speed 4-stroke engines operating on corrosive fuel such as hydrogen sulphide and halogens.</i>										



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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILTHERM 32</b>		30	5,4		0,857	-6	230			
	<i>Regular heat transfer fluid, based on solvent refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in a broad range of applications</i>									
<b>MOBILTHERM 594</b>		5	1,5		0,850	-45	135			
	<i>Naphthenic, mineral heat transfer oil for use in indirect heat transfer systems. Characterized by its exceptionally low pour point, high level of thermal stability and good heat transfer performance</i>									
<b>MOBILTHERM 603</b>		20	4,2		0,836	-3	210			
	<i>High performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.</i>									
<b>MOBILTHERM 605</b>		30	5,4		0,857	-6	230			
	<i>High performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.</i>									
<b>MOBILTHERM 610</b>		100	11,5		0,880	-6	250			
	<i>High performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.</i>									
<b>MOBILTHERM 611</b>		490			0,906	-6	294			
	<i>High performance heat transfer fluid, based on highly refined mineral base stocks. Good heat transfer efficiency. High flash point and good resistance to thermal cracking. For use in both open and closed heating and cooling systems.</i>									



Brand name	Density at 15°C g/cm³	Appearance at 3% Dilution	pH at 3%	Mineral Oil Content %	Specifications		
					Approved	Meets	Quality Level
<b>MOBILCUT 242</b>	0,990	Milky	9,2	30			
	<i>High performance, long-life fluid for the machining tough alloys of aluminium and steel. Non staining potential of Aluminum, making it suitable for the aerospace industry.</i>						
<b>MOBILCUT 321</b>	1,120	Yellow	8,9	0			
	<i>Fully synthetic, long life, mineral oil free grinding fluid. Provides good long-term corrosion protection for machine tools and components.</i>						
<b>KUTWELL 42</b>	0,896	Milky	8,9	75		GERMAN TRGS 611	
	<i>Multi-purpose metal-working fluid with high oil content. Good emulsion stability in a wide variety of waters. Used for machining ferrous and non ferrous metals.</i>						
<b>MOBILCUT 122</b>	0,900	Milky	9,5	70			
	<i>Multi-purpose metal-working fluid with high oil content. Good emulsion stability in a wide variety of waters. Used for machining ferrous and non ferrous metals.</i>						
<b>MOBILCUT 222</b>	1,007	Translucent	9,6	40			
	<i>Biostable, semi synthetic emulsion, designed to provide long term operation. Versatile and multi purpose in application. Low maintenance. Can be also used for grinding.</i>						
<b>MOBILCUT 232</b>	0,997	Translucent	9,4	50			
	<i>Biostable, semi synthetic emulsion, designed to provide long term operation. Versatile and multi purpose in application. Low maintenance. Can be also used for grinding.</i>						



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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILMET 422</b>		10	2,6	121	0,853	-42	164			
	<i>Multi purpose light/medium EP neat cutting oil. Suitable for a wide range of machining operations on all types of metals, including yellow metals.</i>									
<b>MOBILMET 423</b>		16	3,9	125		-15	185			
	<i>Multi purpose light/medium EP neat cutting oil. Suitable for a wide range of machining operations on all types of metals, including yellow metals. Can be used for machine tool lubrication and as a hydraulic fluid in non-critical systems.</i>									
<b>MOBILMET 424</b>		23	4,9	133	0,862	-21	200			
	<i>Multi purpose light/medium EP neat cutting oil. Suitable for a wide range of machining operations on all types of metals, including yellow metals. Can be used for machine tool lubrication and as a hydraulic fluid in non-critical systems.</i>									
<b>MOBILMET 426</b>		36	6,2	130		-27	210			
	<i>Multi purpose light/medium EP neat cutting oil. Suitable for a wide range of machining operations on all types of metals, including yellow metals. Can be used as a hydraulic fluid in non-critical systems.</i>									
<b>MOBILMET 427</b>		43	7,3	130	0,878	-15	218			
	<i>Multi purpose light/medium EP neat cutting oil. Suitable for a wide range of machining operations on all types of metals, including yellow metals. Can be used for machine tool lubrication and as a hydraulic fluid in non-critical systems.</i>									
<b>MOBILMET 443</b>		15	3,8	145	0,856	-30	194			
	<i>Recommended for a wide range of severe machining operations on all types of metals, including yellow metals. Chlorine free for lower disposal costs.</i>									
<b>MOBILMET 446</b>		32	6	132	0,882	-24	210			
	<i>Recommended for a wide range of severe machining operations on all types of metals, including yellow metals. Chlorine free for lower disposal costs.</i>									
<b>MOBILMET 447</b>		46	7,4	124	0,888	-21	244			
	<i>Recommended for a wide range of severe machining operations on all types of metals, including yellow metals. Chlorine free for lower disposal costs.</i>									



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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILMET 762</b>		10	2,7	110	0,863	-42	168			
<p><i>Chlorine free oil with antimist additives for heavy duty cutting operations, including difficult to machine steels. Copper corrosive so cannot be used for machining copper based alloys.</i></p>										
<b>MOBILMET 763</b>		19	4,2	128	0,874	-27	180			
<p><i>Chlorine free oil with antimist additives for heavy duty cutting operations, including difficult to machine steels. Copper corrosive so cannot be used for machining copper based alloys.</i></p>										
<b>VACMUL O3C</b>		4,5			0,842		130			
<p><i>Low viscosity cutting fluid for honing and grinding. Low odour for good operator comfort. Low colour for good visibility. Good settling of fines.</i></p>										
<b>MOBIL VACMUL EDM3</b>		2,6			0,800		105			
<p><i>Highly refined fluid for Electro-Discharge Machining. Excellent machining performance combined with good operator comfort. For both roughing and finishing operations.</i></p>										



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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILARMA 524</b>		88	10,5	95	0,882	-21	220			
	<i>High performance rust preventive, SAE 40, recommended for temporary corrosion protection of hydraulic systems, gear boxes and engines.</i>									
<b>MOBILARMA 778</b>		39			0,877	-15	200			
	<i>Oil based rust preventive for hydraulic systems and machined components.</i>									
<b>MOBILARMA ST</b>		32			0,880					
	<i>Solvent based corrosion preventive for short term protection. Thin film and high coverage capacity. Higher flash point and lower evaporation for enhanced operator safety.</i>									
<b>MOBILARMA MT</b>		1,8			0,813		60			
	<i>Solvent based corrosion preventive for medium and term protection. Thin film and high coverage capacity. Higher flash point and lower evaporation for enhanced operator safety.</i>									
<b>MOBILARMA LT</b>		4,5			0,845		65			
	<i>Solvent based corrosion preventive for long term protection. Thin film and high coverage capacity. Higher flash point and lower evaporation for enhanced operator safety.</i>									



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		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL DTE FM 32</b>	32	32	5,5		0,862	-12	212		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as a hydraulic oil as well as for compressor and vacuum pump lubricant.</i>									
<b>MOBIL DTE FM 46</b>	46	46	6,8		0,868	-9	226		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as a hydraulic and compressor oil.</i>									
<b>MOBIL DTE FM 68</b>	68	69	8,7		0,873	-12	228		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as hydraulic and compressor oil.</i>									
<b>MOBIL DTE FM 100</b>	100	97	10,9		0,878	-18	246		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust.</i>									
<b>MOBIL DTE FM 150</b>	150	156	17		0,869	-12	250		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust.</i>									
<b>MOBIL DTE FM 220</b>	220	214	24,5		0,854	-21	246		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as gear, bearing and circulation oil.</i>									
<b>MOBIL DTE FM 320</b>	320	326	34,2		0,852	-30	272		FDA 21 CFR 178.3570 NSF H1 Registered	
	<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as gear, bearing and circulation oil.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL DTE FM 460</b>	460	439	43,4		0,852	-36	284		FDA 21 CFR 178.3570 NSF H1 Registered	
		<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as gear, bearing and circulation oil.</i>								
<b>MOBIL DTE FM 680</b>	680	670	61,2		0,853	-39	278		FDA 21 CFR 178.3570 NSF H1 Registered	
		<i>High performance lubricant for the food processing and packaging industries. Tasteless and odourless. Good wear protection, excellent oxidation stability and protection against rust. Used as gear oil.</i>								
<b>MOBIL FM 100 SPRAY</b>	100	97	10,9		0,878	-18	246		FDA 21 CFR 178.3570 NSF H1 Registered	
		<i>Multi-purpose spray lubricant for chains, conveyors and bearings, as used in the food and beverage industry giving the performance benefits of Mobil DTE FM 100 as a spray. Note typical results are after aerosol propellant has evaporated.</i>								
<b>MOBIL SHC FM 46</b>	46								FDA 21 CFR 178.3570 NSF H1 Registered	
		<i>Fully synthetic, premium quality oil for the lubrication of screw type air compressors in the food and meat packing industry.</i>								
<b>MOBILTHERM FM 32</b>	32								FDA 21 CFR 178.3570 NSF H1 Registered	
		<i>Fully synthetic, high performance heat transfer oil for the food and beverage industry.</i>								





Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGREASE FM 221</b>		198-242			1	Aluminium Complex		Kosher Halal	NSF H1 registered DIN KPF1K-20	
	<i>Multipurpose grease for the food and beverage industry.</i>									
<b>MOBILGREASE FM 222</b>		198-242			2	Aluminium Complex		Kosher Halal	NSF H1 registered DIN KPF2K-20	
	<i>Multipurpose grease for the food and beverage industry.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL VELOCITE HP 24</b>		25	4,6		0,870	-9	212			
<i>Designed for knitting machines in the textile industry. Lubrication of needles, sinkers and cam mechanisms in circular knitting machines and hosiery machines. Based on high quality mineral white oils with highly specialised additives. Non staining.</i>										
<b>MOBIL VELOCITE HP 32</b>	32	32	5,0		0,870	-9	218			
<i>Designed for knitting machines in the textile industry. Lubrication of needles, sinkers and cam mechanisms in circular knitting machines and hosiery machines. Based on high quality mineral white oils with highly specialised additives. Non staining.</i>										
<b>MOBIL VELOCITE HP 46</b>	46	46	6,8		0,870	-9	238			
<i>Designed for knitting machines in the textile industry. Lubrication of needles, sinkers and cam mechanisms in circular knitting machines and hosiery machines. Based on high quality mineral white oils with highly specialised additives. Non staining.</i>										



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL SHC PM 150</b>	150	158	18,9	131	0,857	-39	220			
	<i>Synthetic, high performance lubricant. For use in demanding circulation systems of high output paper machines and of calendar rolls. Separates water effectively and retain its colour characteristics for long periods of operation.</i>									
<b>MOBIL SHC PM 220</b>	220	225	25,6	133	0,863	-36	220			
	<i>Synthetic, high performance lubricant. For use in demanding circulation systems of high output paper machines and of calendar rolls. Separates water effectively and retain its colour characteristics for long periods of operation.</i>									
<b>MOBIL SHC PM 320</b>	320	325	34,7	135	0,865	-33	220			
	<i>Synthetic, high performance lubricant. For use in demanding circulation systems of high output paper machines and of calendar rolls. Separates water effectively and retain its colour characteristics for long periods of operation.</i>									
<b>MOBIL SHC PM 460</b>	460	465	44,8	137	0,874	-27	220			
	<i>Synthetic, high performance lubricant. For use in demanding circulation systems of high output paper machines and of calendar rolls. Separates water effectively and retain its colour characteristics for long periods of operation.</i>									
<b>MOBIL PAPER MACHINE OIL S 220</b>	220	220	27	153	0.88	-48	214			
	<i>High performance synthetic lubricant specifically designed for demanding industrial paper machine circulation systems where oil darkening is a problem. Designed to provide excellent protection of gears and bearings operating under severe conditions.</i>									
<b>MOBIL DTE PM 150</b>	150	150	14,7	95	0,884	-6	240			
	<i>High quality, high performance lubricant for demanding industrial paper machine circulation systems. Excellent separation from water. Good anti-wear performance.</i>									
<b>MOBIL DTE PM 220</b>	220	220	19	95	0,888	-6	250	SKF Paper Machine Oils for Drier Section (OHF-T-3) FAG Paper Machine for Drier Section		
	<i>High quality, high performance lubricant for demanding industrial paper machine circulation systems. Excellent separation from water. Good anti-wear performance.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILITH SHC PM 220</b>	220	from 198 to 242			1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
			<i>Designed for use in the most critical rolling element bearing applications in paper machines. Provides outstanding protection against rust and typical acid and alkali water corrosion, making it ideal for the wet end of the paper machine. The low volatility and excellent oxidation stability of the synthetic base stock ensures excellent service at high temperatures typical of dry end conditions.</i>							
<b>MOBILITH SHC PM 460</b>	460	from 414 to 506			1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
			<i>Designed for use in the most critical rolling element bearing applications in paper machines. Provides outstanding protection against rust and typical acid and alkali water corrosion, making it ideal for the wet end of the paper machine. The low volatility and excellent oxidation stability of the synthetic base stock ensures excellent service at high temperatures typical of dry end conditions.</i>							



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGEAR OGL 007</b>	460	from 414 to 506			00	Lithium	180 min			
			<i>High performance semi fluid lubricant that contain EP additives and finely dispersed graphite. Designed for fast, medium and slow open gears in mining, agriculture and cement. Suitable for bath or spray application.</i>							
<b>MOBILGEAR OGL 009</b>	1500	from 1350 to 1650			00	Lithium	180 min			
			<i>High performance semi fluid lubricant that contain EP additives and finely dispersed graphite. Designed for fast, medium and slow open gears in mining, agriculture and cement. Suitable for bath or spray application.</i>							
<b>MOBILGEAR OGL 461</b>	460	from 414 to 506			1,5	Lithium	180 min			
			<i>High performance semi fluid lubricant that contain EP additives and finely dispersed graphite. Designed for fast, medium and slow open gears in mining, agriculture and cement. Suitable for bath or spray application.</i>							



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL GLYGOYLE GREASE 00</b>		from 170 to 190			00	Lithium	N/A			
	<i>Synthetic, polyglycol based semi-fluid, long service grease. First and service fill. For enclosed gears and bearings.</i>									
<b>MOBIL POLYREX EM</b>		from 109 to 116.5	from 11.7 to 13.0	95 min	2	Polyurea	250 min			
	<i>Super performance polyurea thickened grease. Recommended for electric motor bearings and sealed-for-life bearings. Higher temperature operations with optimal oil separation. Also for low noise sensitive environments.</i>									
<b>MOBIL POLYREX EM 103</b>		from 109 to 116.5	from 11.7 to 13.0	95 min	3	Polyurea	250 min			
	<i>Super performance polyurea thickened grease. Recommended for electric motor bearings and sealed-for-life bearings. Higher temperature operations with optimal oil separation. Also for low noise sensitive environments.</i>									
<b>UNIREX N 2</b>		from 109 to 116.5	from 11.7 to 13.0	95 min	2	Lithium Complex	205 min		K2N-20L	
	<i>Premium quality long-life lithium complex grease suitable for high temperature service in all types of bearings. Versatile product profile with applications in a wide range of industries but most particularly for electric motors and sealed-for-life bearings.</i>									
<b>UNIREX N 3</b>		from 109 to 116.5	from 11.7 to 13.0	95 min	3	Lithium Complex	205 min		K3N-20L	
	<i>Premium quality long-life lithium complex grease suitable for high temperature service in all types of bearings. Versatile product profile with applications in a wide range of industries but most particularly for electric motors and sealed-for-life bearings.</i>									
<b>UNIREX EP 2</b>	220	from 200 to 240	from 17.0 to 21.0		2	Lithium Complex	260 min			
	<i>Premium quality lithium complex thickened mineral oil based grease. Excellent multipurpose grease, particularly where there may be water contamination and/or heavy duty in service. Suitable for plain and anti-friction bearings in a wide variety of industrial and automotive applications.</i>									
<b>MOBIL SHC POLYREX 462</b>	460	from 414 to 506			2	Polyurea	250 min	Kosher & Parve	DIN KPF2P-20	NSF H1 registered
	<i>Supreme performance fully synthetic grease designed to improve productivity by solving high temperature lubrication problems in both general industry and food processing applications. It offers a combination of high temperature performance, excellent water resistance and balanced performance properties.</i>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGREASE XHP 103</b>	100	from 90 to 110			3	Lithium Complex	260 min			
		<i>Extra high performance mineral oil grease for industrial, automotive, construction and marine applications. Used for severe operating conditions, including high temperature, water contamination, high loads and shock loading.</i>								
<b>MOBILGREASE XHP 221</b>	220	from 198 to 242			1	Lithium Complex	260 min			
		<i>Extra high performance mineral oil grease for industrial, automotive, construction and marine applications. Used for severe operating conditions, including high temperature, water contamination, high loads and shock loading.</i>								
<b>MOBILGREASE XHP 222</b>	220				1,5	Lithium Complex	246 min			
		<i>Extra high performance mineral oil grease for industrial, automotive, construction and marine applications. Used for severe operating conditions, including high temperature, water contamination, high loads and shock loading.</i>								
<b>MOBILGREASE XHP 461</b>	460	from 414 to 506			1	Lithium Complex	260 min			
		<i>Extra high performance mineral oil grease for industrial, automotive, construction and marine applications. Used for severe operating conditions, including high temperature, water contamination, high loads and shock loading.</i>								
<b>MOBILUX EP 023</b>	320	from 288 to 352			000	Lithium	N/A			
		<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty. Used for enclosed gears.</i>								
<b>MOBILUX EP 004</b>	150	from 135 to 165			00	Lithium	N/A	SEW under approval phase		
		<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i>								
<b>MOBILUX EP 0</b>	150	from 135 to 165			0	Lithium	180 min			
		<i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i>								



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILUX EP 1</b>	150	from 135 to 165			1	Lithium	180 min			
	<p><i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i></p>									
<b>MOBILUX EP 2</b>	150	from 135 to 165			2	Lithium	180 min			
	<p><i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i></p>									
<b>MOBILUX EP 3</b>	150	from 135 to 165			3	Lithium	180 min			
	<p><i>High performance general purpose industrial grease. Based on mineral oils and a lithium thickener to provide extra protection against wear, rusting and water washout. Suitable for equipment where moist or wet conditions are common. Recommended for most types of industrial applications including heavy-duty.</i></p>									
<b>MOBILTEMP 1</b>	460	from 414 to 506			1	Clay	260 min			
	<p><i>High performance clay thickened grease. Used for plain and anti-friction bearings operating at low speed and high temperature. Low volatility and excellent resistance to oxidation and water washout and good anti-wear performance.</i></p>									
<b>MOBILTEMP 78</b>	460	from 414 to 506			1	Clay	260 min			
	<p><i>High performance clay thickened grease. Used for plain and anti-friction bearings operating at low speed and high temperature. Low volatility and excellent resistance to oxidation and water washout and good anti-wear performance. It contains molybdenum disulphide.</i></p>									
<b>MOBILGREASE SPECIAL</b>	150	from 135 to 165			2	Lithium	180 min			
	<p><i>Extreme pressure lithium thickened grease. Contains molybdenum disulphide to give extra protection in heavily loaded bearings. Wheel bearings and chassis components in automotive and industrial equipment, passenger cars, trucks, farm tractors, construction and mobile equipment.</i></p>									
<b>MOBIL SHC GREASE EAL 102</b>	100	from 90 to 110			2	Lithium	175 min			
	<p><i>Biodegradable, synthetic ester based, multipurpose grease. Water resistant with good adherence. For use in environmentally sensitive applications.</i></p>									





Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILTEMP SHC 32</b>	N	from 26.0 to 32.5			1,5	Clay	260 min			
		Fully synthetic anti-wear grease for high temperature applications. Excellent resistance to thermal/oxidative degradation with excellent structural stability at high temperature. Long service life for extended relubrication periods and energy savings potential.								
<b>MOBILTEMP SHC 100</b>	100	from 90 to 110			2	Clay	260 min			
		Fully synthetic anti-wear grease for high temperature applications. Excellent resistance to thermal/oxidative degradation with excellent structural stability at high temperature. Long service life for extended relubrication periods and energy savings potential.								
<b>MOBILTEMP SHC 460 SPECIAL</b>	460	from 414 to 506			1	Clay	260 min			
		Fully synthetic anti-wear greases for high temperature applications. Excellent resistance to thermal/oxidative degradation with excellent structural stability at high temperature. Long service life for extended relubrication periods and energy savings potential. Contains molybdeneum disulphide.								
<b>MOBILITH SHC 007</b>	460	from 414 to 506			00	Lithium Complex	N/A		DIN 51826: GPHC00K-30	
		Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.								
<b>MOBILITH SHC 100</b>	100				1,5	Lithium Complex	246 min		DIN 51825: KPHC2N-40	
		Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.								
<b>MOBILITH SHC 220</b>	220				1,5	Lithium Complex	246 min		DIN 51825: KPHC2N-40	
		Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.								
<b>MOBILITH SHC 460</b>	460				1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
		Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications.								



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILITH SHC 1000 SPECIAL</b>	1000	from 900 to 1100			2	Lithium Complex	246 min		DIN KPFHC2N-30	
	<p><i>Supreme performance fully synthetic grease designed for a wide variety of applications at extremes of temperature and operating conditions. Excellent adhesion, structural stability and resistance to water. Used in industrial, automotive and marine applications. Contains molybdeneum disulphide and graphite.</i></p>									
<b>MOBIL SHC GREASE 460 WT</b>	460	from 414 to 506			1,5	Lithium Complex	246 min		DIN 51825: KPHC1-2N-40	
	<p><i>Supreme performance product especially suited to exceed the demanding requirements of wind turbine applications at extremes of temperature. Specially formulated to lubricate yaw, pitch and main bearings of wind turbines and to provide extended service life.</i></p>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILSOL PM</b>		383	21	56	0,885		208			
<p><i>Mobisol PM is a highly detergent and dispersant synthetic fluid which, when added to the oil in hydraulic, paper machine or general circulation systems, will help to release and hold in suspension gummy oil oxidation products and insoluble materials.</i></p>										
<b>MOBIL SILTAC EAL 68</b>		76	15	217		-25				
<p><i>Biodegradable chain saw oil for sensitive environments, the product uses high quality rapeseed oil in its formulation in order have minimal impact on the local environment</i></p>										

# Marine Lubricants

Marine Engine Oils	72
Marine Cylinder Oils	76
Mobil Stern Tube Lubricant	77





# Marine Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGARD 312</b>	30	108	12	100	0,896	-9	15			API CF
	<p><i>Mobilgard 312 is a high performance diesel engine oil developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. It is formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. It has superior water separating properties and provide excellent corrosion protection.</i></p>									
<b>MOBILGARD 412</b>	40	142	14,5	100	0,899	-9	15			API CF
	<p><i>Mobilgard 312 is a high performance diesel engine oil developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. It is formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. It has superior water separating properties and provide excellent corrosion protection.</i></p>									
<b>MOBILGARD 512</b>	50	219	19,4	100	0,894	-9	15			API CF
	<p><i>Mobilgard 12 Series by ExxonMobil are high performance diesel engine oils developed for use in trunk piston engines operating on low sulphur distillate fuels in marine and industrial applications. They are formulated to have excellent resistance to oxidation and viscosity increase over a long period of service. They have superior water separating properties and provide excellent corrosion protection.</i></p>									
<b>MOBILGARD ADL 30</b>	30	108	12	100	0,9	-12	15			API CF
	<p><i>Mobilgard ADL Series by ExxonMobil is a high performance family of increased dispersancy engine oils for high BMEP medium and high-speed diesel engines operating on distillate and MDO fuels. These advanced diesel lubricants are available in both SAE 30 and 40 grades to suit most marine engine viscosity requirements. As a result of a special balance of detergent and dispersant properties these oils provide not only increased resistance to cylinder liner lacquer formation in severe service applications, but also assist in sludge and deposit removal. Use of Mobilgard ADL Series oils avoids high oil consumption associated with cylinder liner lacquering, improves overall engine cleanliness and can increase time between engine overhauls. Superior load carrying properties minimise piston ring and liner wear, and also make Mobilgard ADL Series lubricants suitable for marine gearing applications.</i></p>									
<b>MOBILGARD ADL 40</b>	40	141	14,5	101	0,901	-9	15			API CF
	<p><i>Mobilgard ADL Series by ExxonMobil is a high performance family of increased dispersancy engine oils for high BMEP medium and high-speed diesel engines operating on distillate and MDO fuels. These advanced diesel lubricants are available in both SAE 30 and 40 grades to suit most marine engine viscosity requirements. As a result of a special balance of detergent and dispersant properties these oils provide not only increased resistance to cylinder liner lacquer formation in severe service applications, but also assist in sludge and deposit removal. Use of Mobilgard ADL Series oils avoids high oil consumption associated with cylinder liner lacquering, improves overall engine cleanliness and can increase time between engine overhauls. Superior load carrying properties minimise piston ring and liner wear, and also make Mobilgard ADL Series lubricants suitable for marine gearing applications.</i></p>									



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGARD M330</b>	30	112	12		0,907	-6	30		API CF	
<p><i>Mobilgard M30 Series (M330 and M430) are premium, extra high performance 30 TBN engine oils designed for use in the most severe residual-fueled, medium-speed diesel engines used in marine and stationary power applications. These diesel engine oils have been specially formulated to provide outstanding residual fuel compatibility characteristics to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. They provide excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection.</i></p>										
<b>MOBILGARD M430</b>	40	143	14		0,907	-6	30		API CF	
<p><i>Mobilgard M30 Series (M330 and M430) are premium, extra high performance 30 TBN engine oils designed for use in the most severe residual-fueled, medium-speed diesel engines used in marine and stationary power applications. These diesel engine oils have been specially formulated to provide outstanding residual fuel compatibility characteristics to deliver excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston undercrowns. They provide excellent high temperature oxidation and thermal stability, low volatility, high load-carrying properties and corrosion protection. Mobilgard L540 was specially formulated for use in applications with fuel sulphur levels ranging from less than 0.3% up to 1.5%.</i></p>										
<b>MOBILGARD M340</b>	30	113	12		0,915	-6	40			
<p><i>Mobilgard M40 Series oils are designed to meet the needs of engines operating on heavy fuel. They are recommended for use in the latest model medium speed diesel engines and are especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures. Relatively high alkalinity reserves in these oils provide superior protection in neutralising the strong acids resulting from the use of high sulphur fuels that find access to the crankcase to promote oil degradation and ring, cylinder, and bearing corrosion.</i></p>										
<b>MOBILGARD M440</b>	40	143	14		0,915	-6	40		API CF	
<p><i>Mobilgard M40 Series oils are designed to meet the needs of engines operating on heavy fuel. They are recommended for use in the latest model medium speed diesel engines and are especially beneficial in engines having low crankcase oil consumption or operating with low cylinder liner temperatures. Relatively high alkalinity reserves in these oils provide superior protection in neutralising the strong acids resulting from the use of high sulphur fuels that find access to the crankcase to promote oil degradation and ring, cylinder, and bearing corrosion.</i></p>										
<b>MOBILGARD M50</b>	40	142	14		0,922	-6	50		API CF	
<p><i>Mobilgard M50 is especially recommended for use in the latest medium-speed engines designed with "flame-ring" cylinder liners operating on high sulphur fuels. It is recommended for use in main propulsion and auxiliary engines on deep-sea vessels; in main propulsion engines on coastal and river ships; and in stationary power plants.</i></p>										



# Marine Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGARD 300</b>	30	111	12	97	0,889	-12	5			
<p><i>Mobilgard 300 is recommended primarily for use as system oil in late model, high-output, crosshead diesel engines, especially those engines employing the system oil for piston cooling. It will prevent or reduce deposit formation in the piston cooling spaces, thus maintaining piston cooling efficiency and reducing the incidence of piston top burning and piston crown cracking. It will also prevent or reduce crankcase deposits and will provide outstanding protection for heavily loaded bearings. Its reserve alkalinity allows for the burning of high sulphur fuel. Good rust prevention and water separation characteristics make Mobilgard 300 an excellent system oil in older design crosshead diesel engines which have water-cooled pistons and where crankcase deposits can be a problem with lower-quality system oils.</i></p>										
<b>MOBILGARD HSD</b>		105	14,2	138	0,88	-33	10	Cummins CES 20078/20077/ 20076/20072/20071 MB 228.3 MAN M3275 Volvo VDS-3	API CI-4/CH-4/CG-4/ CF-4/CF/SL/SJ ACEA E5/E3/B4/B3/A2 Caterpillar ECF-1	
<p><i>Mobilgard HSD is an extra high performance, multi-grade engine oil specifically formulated for severe service high-speed diesel engines in marine applications. Its advanced chemistry provides outstanding performance in both modern, demanding low-emission diesel engines and older diesel engines operating on low or high sulphur distillate fuel. Mobilgard HSD is approved or recommended by all the major marine high-speed diesel engine builders.</i></p>										



## Marine Engine Oils (zinc-free)



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGARD 1 SHC</b>	40	109	14,5	136	0,872	-54	15	MTU TYPE 2	API CF, CF-2 MTU Type II (extended drain up to 1500 hours in fast ferries) FZG Stage 12	API CF / CF-2
	<p><i>Mobilgard 1 SHC is recommended for use as a crankcase lubricant in medium and high speed diesel engines in severe marine service. It is especially suited to the needs of high power concentration engines where thermal stress and loading on the lubricant are severe, as well as for applications involving low-temperature and /or frequent start-up, rapid loading following rapid start-up, and abrupt shutdown after high speed operations.</i></p>									
<b>MOBILGARD 450NC</b>	40	139	14,1	98	0,897	-6	13			API CF / CF-2 EMD, EMD DD6V92 TA test,LMOA Generation 4 lubricant.
	<p><i>Mobilgard 450 NC (No Chlorine) engine oil has been specifically formulated to meet requirements of heavily loaded diesel engines manufactured by EMD and used in marine applications. It is suitable for other marine diesel engines of the highest horsepower, or higher brake mean effective pressure (BMEP) using distillate fuels with a sulfur content up to 1.5 percent. It will lubricate such engines in drilling rigs and stationary power generation service as well. Mobilgard 450 NC has been approved by EMD and is recommended for diesel engines manufactured by Alco, Detroit Diesel (API CF-2) and Fairbanks Morse.</i></p>									





Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBILGARD 570</b>	50	229	21	104	0,937	-9	70			
<p><i>Mobilgard 570 has been developed for marine crosshead engines designed for increased power and fuel efficiency. Such engines exhibit higher temperatures and pressures in the cylinder, which reduce the lubricant's viscosity and increase the loads which it must withstand. Longer piston strokes have greatly increased the amount of surface to be protected and the amount of time the lubricant must withstand the severe cylinder temperatures and corrosive sulphur acids.</i></p>										
<b>MOBILGARD L540</b>	50	236	21	105	0,917	-6	40			
<p><i>Mobilgard L540 has been developed for marine crosshead engines with increased power and fuel efficiency. Such engines exhibit higher temperatures and pressures in the cylinder, which reduce the lubricant's viscosity and increase the loads which it must withstand. Longer piston strokes have greatly increased the amount of surface to be protected and the amount of time the lubricant must withstand the severe cylinder temperatures and corrosive sulphur acids. Mobilgard L540 has also demonstrated superior performance in earlier engine designs.</i></p>										



# Mobil Stern Tube Lubricant



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	TBN	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL STERN TUBE LUBRICANT</b>		385	24	82	0,915	10				
<p><i>Mobil Stern Tube Lubricant is a high-performance, high viscosity lubricant developed especially for the lubrication of Cedervall-type stern tube bearings used in ships and for certain bearings of ships' fin stabilizers. Mobil Stern Tube Lubricant is formulated from relatively high Viscosity Index (VI) base oils combined with emulsifiers, structure modifiers, surface active agents and corrosion preventives. It emulsifies readily with seawater to form a stable water-in-oil emulsion that is adhesive and an excellent lubricant. It provides effective rust protection in the presence of seawater and the lubricating film is resistant to water washing so that corrosion protection is maintained for extended periods under severe operating conditions.</i></p>										

# Aviation Lubricants

Jet Engine Oil	78
Hydraulic Oil	79
Aviation Greases	80





Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>MOBIL JET OIL II</b>		27,6	5,1		1,00355	-59	270	MIL-PRF-23699F-STD		
<p><i>Mobil Jet Oil II is a high performance aircraft-type gas turbine lubricant formulated with a combination of a highly stable synthetic base fluid and a unique chemical additive package. The combination provides outstanding thermal and oxidative stability to resist deterioration and deposit formation in both the liquid and vapour phases, as well as excellent resistance to foaming.</i></p>										
<b>MOBIL JET OIL 254</b>		26,4	5,3		1,0044	-62	254	MIL-PRF-23699F-HTS		
<p><i>Mobil Jet Oil 254 is a third-generation, extra high performance, synthetic aircraft-type gas turbine lubricant engineered to meet the performance requirements for gas turbine engines used in commercial and military aircraft.</i></p>										
<b>MOBIL TURBO 319-A2</b>		16,2	3,7		0,852	-60	234	IPM-10,VNIINP 50-1-4f and -4u, 36/1 Ku-A, MS-8P, MS-8RK		
<p><i>Mobil Turbo 319A-2 is a fully synthetic lubricant developed to meet the performance requirements of Russian gas turbine aircraft engines which operate on mineral-oil-based lubricants. The product has superior thermal and oxidation stability than mineral-oil-based lubricants. The ability of Mobil Turbo 319A-2 to resist deterioration and deposit formation allows the potential for extended oil drain intervals and less frequent maintenance.</i></p>										



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Flash Point °C	Specifications		
		40°C	100°C					Approved	Meets	Quality Level
<b>HYJET IVA-PLUS</b>		37.8 (at 37.8 C)	3.57 (at 98.9 C)	320	1,001	-62	174	SAE AS1241C, NSA 307110M, C-34-1224C, 1159SCH302D, BMS 3-11M, DMS 2014G, BAC.M.333C, BAMS 564-003		
	<p><i>Exxon HyJet IV-Aplus is a superior quality, fire-resistant phosphate ester hydraulic fluid designed for use in commercial aircraft. This product is an advanced Type IV fluid and offers many of the performance capabilities of Type V fluids, including high temperature stability, low density, and rust protection.</i></p>									
<b>MOBIL AERO HFA</b>		13.9	5.1	370	0,882	-66	108 (COC method)	MIL-H-5606A		
	<p><i>Mobil Aero HFA, HF, and HFS are formulated for aircraft systems where use of hydrocarbon-based hydraulic fluids is required. They are low viscosity products, high VI fluid with excellent low temperature properties, good anti-wear performance, and good chemical stability.</i></p>									
<b>MOBIL AERO HF</b>		13.8	5.1	370	0,881	-66	90 (PMCC method)	MIL-PRF-5606H, NATO Code H-515		
	<p><i>Mobil Aero HFA, HF, and HFS are formulated for aircraft systems where use of hydrocarbon-based hydraulic fluids is required. They are low viscosity products, high VI fluid with excellent low temperature properties, good anti-wear performance, and good chemical stability.</i></p>									



Brand name	ISO VG	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		NLGI Grade	Thickener Type	Dropping Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>MOBILGREASE 28</b>		29,3	9,2	1-2	Lithium Complex	315	MIL-PRF-81322G, NATO G-395, JSD XG-293, DOD-G-24508A Am 4		
	<p><i>Mobilgrease 28 is a supreme performance, wide-temperature, antiwear grease designed to combine the unique features of a polyalphaolefin (PAO) synthetic base fluid with an organo-clay (non-soap) thickener. It provides excellent low temperature pumpability, very low starting and running torque, and can reduce operating temperatures in the load zone of rolling element bearings.</i></p>								
<b>MOBIL AVIATION GREASE SHC 100</b>		100	14,5	2	Lithium Complex	278	All Major Aircraft Wheel Builder Approvals		
	<p><i>Mobil Aviation Grease SHC 100 is a supreme performance synthetic grease which combines the unique features of a polyalphaolefin (PAO) synthetic base fluid with those of a high quality lithium complex soap thickener. The thickener system provides a high dropping point, excellent resistance to water wash, and a tenacious structural stability.</i></p>								
<b>MOBILGREASE 33</b>		12,5	3,2	1-2	Lithium Complex	205		BMS 3-33B, MIL-PRF-23827C, Am 1, Type I	
	<p><i>High performance synthetic multipurpose grease; all applications for which the aircraft manufacturer specifies MIL-PRF-23827 and/or BMS 3-33 greases. This grease's unique polyalphaolefin (PAO) synthetic base oil is not susceptible to the effects of hydrolysis that can occur with greases formulated with ester base oils. Mobilgrease 33 PAO base oil, lithium complex thickener, and robust additive system provides outstanding low temperature and wear performance.</i></p>								



**ESSO**





Passenger Vehicle  
Engine Oils

Motorcycle Oils

## Product Index

Esso 2T Synthetic	03
Esso Ultron Turbo Diesel 5W-40	02
Esso Ultron 5W-40	01
Esso Ultra 10W-40	01
Esso Ultra 913 5W-30	01
Esso Uniflo 10W-40	01
Esso Uniflo 15W-40	01
Esso Uniflo 20W-50	01
Esso Extra 15W-40	01
Esso Ultra Turbo Diesel 10W-40	02
Esso Uniflo Diesel 15W-40	02
Esso Uniflo Diesel 20W-50	02
Esso Extra Diesel 15W-40	02





# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C			Approved	Meets	Quality Level
<b>ESSO ULTRON 5W-40</b>	5W-40	83,2	14,1	0,85	220	BMW Longlife Oil 98 MB 229.3 VW 505 00, VW 502 00 Approved by PCA Peugeot Citroen Automobiles GM LL-B-025	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	
	<p><i>Super Premium Synthetic Engine Oil developed to provide an outstanding level of protection and performance. Recommended for frequently severe driving conditions in most types of modern vehicles, including high-performance turbo-charged, supercharged gasoline and diesel multi-valve fuel injected engines.</i></p>							
<b>ESSO ULTRA 10W-40</b>	10W-40	97	14,4			MB 229.1 VW 505 00	API SL/SJ/CF ACEA A3/B3	VW 500 00
	<p><i>Premium Semi-Synthetic Engine Oil designed to provide a superior level of protection and performance. Recommended for normal to occasionally severe driving in most types of engines.</i></p>							
<b>ESSO ULTRA 913 5W-30</b>	5W-30	59	10,6	0,85	225		API SL ACEA A1/B1 Ford WSS M2C913-A Ford WSS M2C913-B	
	<p><i>Premium Synthetic Engine Oil specially developed for Ford gasoline and diesel engines with improved fuel economy and reduced exhaust emissions.</i></p>							
<b>ESSO UNIFLO 10W-40</b>	10W-40	97	14,4				API SL/SJ/CF ACEA A2/B2	VW 500 00
	<p><i>High Quality Mineral Diesel Engine Oil. Recommended for normal driving conditions in most vehicles.</i></p>							
<b>ESSO UNIFLO 15W-40</b>	15W-40	107	14,4				API SL/SJ/CF ACEA A2/B2	
	<p><i>High Quality Mineral Diesel Engine Oil. Recommended for normal driving conditions in most vehicles.</i></p>							
<b>ESSO UNIFLO 20W-50</b>	20W-50	171	19,1				API SL/SJ/CF ACEA A2/B2	
	<p><i>High Quality Mineral Diesel Engine Oil. Recommended for normal driving conditions in most vehicles.</i></p>							
<b>ESSO EXTRA 15W-40</b>	15W-40	107	14,4					API SG/CD
	<p><i>Quality Mineral Engine Oil for passenger vehicles</i></p>							



# Passenger Vehicle Engine Oils



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Density at 15°C <i>g/cm<sup>3</sup></i>	Flash Point °C	Specifications		
		40°C	100°C			Approved	Meets	Quality Level
<b>ESSO ULTRON TURBO DIESEL 5W-40</b>	5W-40	83,2	14,1	0,85	220	MB 229.3 VW 505 00 Approved by PCA Peugeot Citroen Automobiles GM LL-B-026	API SM/SL/SJ/CF ACEA A3/B3, A3/B4	BMW Longlife Oil 98
	<p><i>Super Premium Synthetic Diesel Engine Oil developed to provide an outstanding level of protection and performance. Specifically recommended for use in most vehicles including high performance, turbo-charged and supercharged diesel multi-valve fuel injected engines.</i></p>							
<b>ESSO ULTRA TURBO DIESEL 10W-40</b>	10W-40	97	14,4			VW 505 00 MB 229.1	API CF ACEA A3/B3	
	<p><i>Premium Semi-Synthetic Diesel Engine Oil designed to provide a superior level of protection and performance. Recommended for normal to occasionally severe driving conditions in naturally aspirated and turbo-charged diesel engines in passenger cars and light commercial vehicles.</i></p>							
<b>ESSO UNIFLO DIESEL 15W-40</b>	15W-40	107	14,4				API CF	ACEA B2
	<p><i>High Quality Mineral Diesel Engine Oil. Recommended for normal driving conditions in most vehicles.</i></p>							
<b>ESSO UNIFLO DIESEL 20W-50</b>	20W-50	171	19,1				API CF	ACEA B2
	<p><i>High Quality Mineral Engine Oil. Recommended for normal driving conditions in most vehicles.</i></p>							
<b>ESSO EXTRA DIESEL 15W-40</b>	15W-40	107	14,4					API CD
	<p><i>Quality Mineral Diesel Engine Oil for passenger vehicles</i></p>							



Brand name	SAE Grade	Kinematic Viscosity <i>mm<sup>2</sup>/s or cSt</i>		Viscosity Index	Density at 15°C <i>g/cm<sup>3</sup></i>	Pour Point °C	Specifications		
		40°C	100°C				Approved	Meets	Quality Level
<b>ESSO 2T SYNTHETIC</b>		83	12,7	154	0,88	-42		API TC JASO FC Can claim the following: API TC JASO FD/FC ISO E-GC/E-GD TISI SAE Grade 1 SAE Grade 2	
	<i>Premium quality fully synthetic lubricant for use in a wide range of two stroke motorcycles.</i>								

# Useful Information

ISO Viscosity Classification System

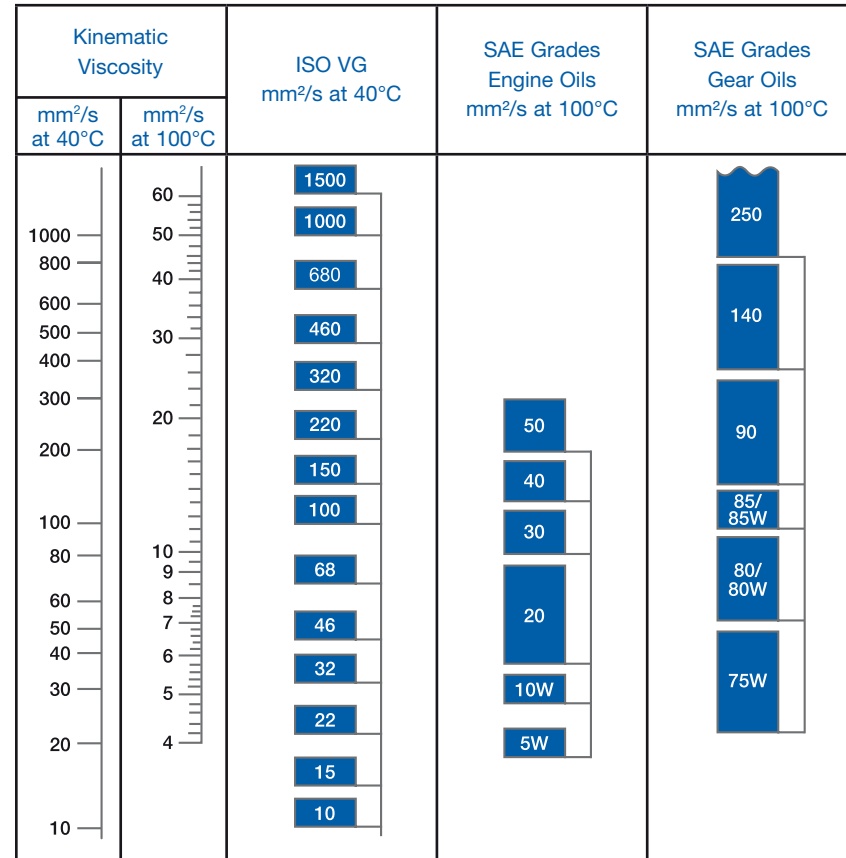


# ISO Viscosity Classification System

The ISO Viscosity Grades are an International System approved by the International Standards Organisation for classifying lubricants according to viscosity. Each ISO Viscosity Grade corresponds to a mid-point of a viscosity range expressed in centiStokes (cSt or mm<sup>2</sup>/s) at 40°C.

ISO Viscosity Grade	Viscosity Ranges at 40°C	Mid Point
ISO VG 2	1,98-2,42	2,2
ISO VG 3	2,88-3,52	3,2
ISO VG 5	4,14-5,06	4,6
ISO VG 7	9,00-11,00	6,8
ISO VG 10	16,5-16,5	10
ISO VG 15	19,8-2,42	15
ISO VG 22	28,8-35,2	22
ISO VG 32	41,4-50,6	32
ISO VG 46	61,2-74,8	46
ISO VG 68	90,0-110	68
ISO VG 100	135-165	100
ISO VG 150	198-242	150
ISO VG 220	288-352	220
ISO VG 320	414-506	320
ISO VG 460	414-506	460
ISO VG 680	612-748	680
ISO VG 1000	900-1000	1000
ISO VG 1500	1350-1650	1500

# Viscosity Classification Equivalents



## SAE Viscosity Grades for Engine Oils

SAE Viscosity Grade	Low Temperature (°C) Cranking Viscosity <sup>2</sup> , cP Max	Low Temperature (°C) Pumping Viscosity <sup>3</sup> , (cP) Max with No Yield Stress <sup>3</sup>	Kinematic Viscosity <sup>4</sup> , cSt at 100°C	
			Min	Min
0W	6,200 at -35	60,000 at -40	3.8	-
5W	6,600 at -30	60,000 at -35	3.8	-
10W	7,000 at -25	60,000 at -30	4.1	-
15W	7,000 at -20	60,000 at -25	5.6	-
20W	9,500 at -15	60,000 at -20	5.6	-
25W	13,000 at -10	60,000 at -15	9.3	-
20	-	-	5.6	<9.3
30	-	-	9.3	<12.5
40	-	-	12.5	<16.3
50	-	-	16.3	<21.9
60	-	-	21.9	<26.1

NOTE: 1 cP = 1 mPa•s; 1 cSt = 1mm<sup>2</sup>/s.

1 All values are critical specifications as defined by ASTM D 3244.

2 ASTM D 5293.

3 ASTM D 4684. Note that the presence of any yield stress detectable by this method constitutes a failure regardless of viscosity.

4 ASTM D 445.

## SAE Axle and Manual Transmission Gear Oils Viscosity Classification

SAE Viscosity Grade	Maximum Temperature for Viscosity of 150,000 cP (°C)	Kinematic Viscosity at 100° (cSt) <sup>b</sup>	
		Minimum	Maximum
70W	-55c	4.1	-
75W	-40	4.1	-
80W	-26	7.0	-
85W	-12	11.0	-
90	-	13.5	<24.0
140	-	24.0	<41.0
250	-	41.0	-

a Centipoise (cP) is the customary absolute viscosity unit and is numerically equal to the corresponding SI unit of millipascal-second (mPa•s).

b Centistokes (cSt) is the customary kinematic viscosity unit and is numerically equal to the corresponding SI unit of square millimeter per second (mm<sup>2</sup>/s).

## Grease Consistency (NLGI)

Grade NLGI	Penetration 0,1 mm 25°C (after 60-stroke worked)
000	445-475
00	400-300
0	355-385
1	310-340
2	265-295
3	220-250



## Notes

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## Notes

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