

INDUSTRIAL ENGINE RATINGS GUIDE

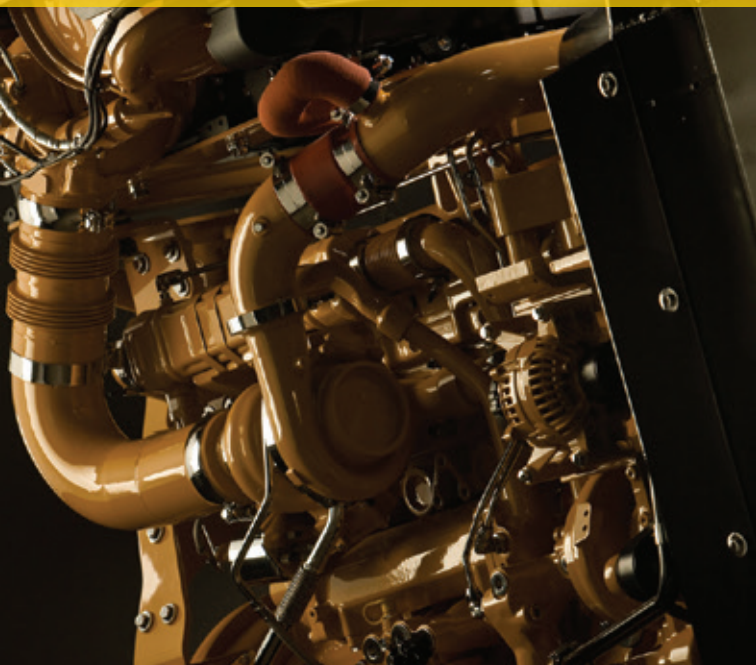


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Highly Regulated/Lesser Regulated

For purposes of this Guide, “Highly Regulated” refers to engines that meet stringent emission standards in effect in the U.S., Canada, the EU, and Japan. “Lesser Regulated” refers to engines that are available for other regulated and non-regulated areas.

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Highly Regulated

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Cat Engines

Diesel Engine Rating Definitions

Explanation of Ratings A, B, C, D, and E:

For an exact determination of the appropriate rating, contact your local Cat dealer. Engine rating obtained and presented in accordance with ISO3046/1.

IND-A (Continuous)

Continuous heavy-duty service where the engine is operated at maximum power and speed up to 100% of the time without interruption or load cycling.

IND-B

For service where power and/or speed are cyclic (time at full load not to exceed 80%).

IND-C (Intermittent)

Intermittent service where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

IND-D

For service where maximum power is required for periodic overloads (time at full load not to exceed 10% of the duty cycle).

IND-E

For service where maximum power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable (time at full load not to exceed 5% of the duty cycle).

Rating Conditions

Diesel Engines — up to 6.6 liter

All rating conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Diesel Engines — up to 7.1 liter

All rating conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Diesel Engines — greater than 7.1 liter

All rating conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.

ISO 9001:2000 Certification

Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities.

Cat Engines

Cleaner Fuel and Oils

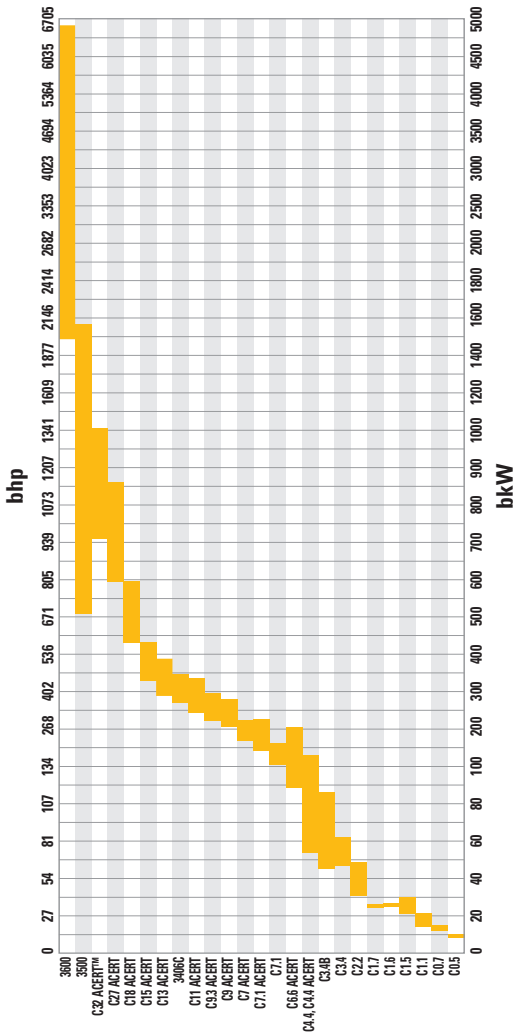
Industry technology requires the use of Ultra Low Sulfur Diesel (ULSD) fuel which contains less than or equal to 15 parts per million sulfur (mg/kg) as well as low sulfated ash oil in U.S. EPA Tier 4 Final, EU Stage IV engines. These cleaner fuels and oils help reduce engine operating costs. Cat U.S. EPA Tier 4 Final, EU Stage IV engines continue to have B20 biodiesel capability when desired or required.

Abbreviations

ATAAC.....	Air-to-Air Aftercooled
bhp.....	brake horsepower
bkW	brake kilowatts
CAT	standard (stoichiometric) engine Catalyst rating
CEM.....	Clean Emissions Module
DEF.....	Desel Exhaust Fluid
DOC.....	Diesel Oxidation Catalyst
DPF	Diesel Particulate Filter
ECU	Electronic Control Unit
FIE	Fuel Injection Equipment
JWAC	Jacket Water Aftercooled
LE.....	Low Emission
NA	Naturally Aspirated
NRS	NOx Reduction System
NSPS.....	New Source Performance Standard
PC.....	Precombustion Chamber
PETU	Pump Electronic Tank Unit
SCAC.....	Separate Circuit Aftercooled
SCR	Selective Catalytic Reduction
SI	Spark Ignited
SI NSPS	Spark Ignited New Source Performance Standard
STD	Standard (stoichiometric) engine highest power rating
T.....	Turbocharged
TA.....	Turbocharged-Aftercooled
TTA	Twin Turbo Aftercooled

Cat Engines

Match a Cat Engine to Your Application



Customer Value

Industrial Engines

Reliability

- Industrial engines have been validated in a wide variety of machines and applications.
- Common design across engine platforms improves reliability at first production.
- Electronic control systems are proven to withstand severe conditions.
- Simple, efficient turbochargers deliver top performance.

Durability

- Core engine platforms deliver long life to overhaul.
- Engines are designed to be remanufactured.
- Aftertreatment systems for highly regulated models are built to withstand extreme conditions.

Fluid Efficiency

- Improved net engine fluid consumption
- Flexible regeneration options on applicable highly regulated models maximize fluid efficiency.
- Caterpillar integration expertise optimizes engine performance for maximum efficiency.

Low Cost of Ownership

- Value is cumulative over the entire working life of the engine.
- Precise measurement and control enables better fluid efficiency during regeneration.
- Poly-Vee belts extend service intervals.
- High resale value boosts return on investment.

Maximum Uptime

- Ease of service
 - Oil and filter change intervals are consistent across the product line.
 - Diesel Particulate Filters (DPF) for highly regulated models offer flexible service options where ash cleaning is required.
- Ease of operation
 - Regeneration strategies for highly regulated models are designed to keep customers working
 - Electric priming pump improves convenience
 - Single-belt accessory drive

World-class Product Support

- Worldwide Cat dealer network, including the Cat Industrial Service Distributor (ISD) second level distributor program, helps extend engine life and reduce maintenance costs.
- Customer Service Agreements (CSA) and Extended Service Coverage (ESC) control costs and protect investment value.
- Remanufactured parts and high parts availability reduce cost and downtime.

Customer Value

Industrial Power Units

Flexibility

- Complete factory-installed power unit — plug and play
- Mandatory and optional attachments can include: radiator, air cleaner, alternator, A/C compressor, air compressor, muffler, clutch, control panel, engine base, CEM, CEM support structure.
- Flexible configurations
- Minimum or no engineering work for equipment manufacturers

Reliability

- Common design across engine platforms improves reliability at first production.
- Electronic control systems are proven to withstand severe conditions.
- Simple, efficient turbochargers deliver top performance.

Durability

- Core engine platforms deliver long life to overhaul.
- Engines are designed to be remanufactured.
- Aftertreatment systems for highly regulated models are built to withstand extreme conditions.

Fluid Efficiency

- Improved net engine fluid consumption
- Flexible regeneration options on applicable highly regulated models maximize fluid efficiency.
- Caterpillar integration expertise optimizes engine performance for maximum efficiency.

Low-Cost of Ownership

- Value is cumulative over the entire working life of the power unit.
- Precise measurement and control enables better fluid efficiency during regeneration.
- High resale value boosts return on investment.

Maximum Uptime

- Ease of service
- Ease of operation

World-class Product Support

- Worldwide Cat dealer network, including the Cat ISD second level distributor program, helps extend power unit life and reduce maintenance costs.
- Customer Service Agreements (CSA) and Extended Service Coverage (ESC) control costs and protect investment value.
- Remanufactured parts and high parts availability reduce cost and downtime.

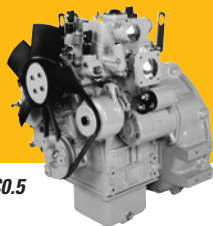
Customer Value

Aftertreatment for Highly Regulated Models

- Advanced NOx Reduction System (NRS) maximizes engine power and fluid efficiency while lowering combustion temperatures and reducing NOx emissions.
- Cat Regeneration System is designed to maximize equipment uptime by providing excellent regeneration capability in a variety of environments, with precise measurement and control to reduce fluid burned during regeneration.
- Diesel Oxidation Catalyst (DOC) facilitates passive regeneration and requires no maintenance.
- Diesel Particulate Filter (DPF) reduces Particulate Matter (PM) with its wall-flow design or through-flow design.
- Flexible regeneration options on applicable models maximize fluid efficiency.
- Pump Electronic Tank Unit (PETU) is available in different volume configurations.
- Up to 5 percent net improvement in fluid efficiency for U.S. EPA Tier 4 Final, EU Stage IV over U.S. EPA Tier 4 Interim, EU Stage IIB (including DEF consumption)

C0.5 | C0.7

ENGINES



C0.5

Specifications

	C0.5 U.S. EPA Tier 4 Final, EU Stage IIIA	C0.7 U.S. EPA Tier 4 Final, EU Stage IIIA
Engine Configuration . . .	In-Line 2, Diesel.	In-Line 3, Diesel
Bore x Stroke	67 x 72 mm (2.6 x 2.8 in)..	67 x 72 mm (2.6 x 2.8 in)
Displacement	0.5 liters (31.0 in ³)	0.76 liters (46.4 in ³)
Ship Weight	57 kg (126 lbs)	71 kg (156.5 lbs)
Approximate Dimensions:		
Length	407 mm (16.0 in)	480 mm (18.9 in)
Width	371 mm (14.6 in)	371 mm (14.6 in)
Height	523 mm (20.6 in)	528 mm (20.8 in)

C0.5 Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	8.2	11.0	2800
	8.8	11.8	3000
	10.2	13.7	3600

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

C0.7 Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	12.2	16.4	2800
	13.2	17.7	3000
	15.3	20.5	3600

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

C0.5 U.S. EPA Tier 4 Final Ratings

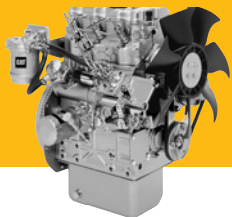
NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	5.7	7.6	2000
	7.3	9.8	2700
	7.6	10.2	2800

Emission standards: U.S. EPA Tier 4 Final. Nonroad engines less than 19 kW (25 hp) are not currently subject to EU emission standards.

C0.7 U.S. EPA Tier 4 Final Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	9.0	12.0	2200

C1.1 ENGINE



Specifications

**U.S. EPA Tier 4 Final,
EU Stage IIIA**

Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)
Displacement	1.1 liters (69 in ³)
Ship Weight	87 kg (191 lbs)

Approximate Dimensions:

Length	491 mm (19.3 in)
Width	400 mm (15.7 in)
Height	576 mm (22.7 in)

C1.1 Ratings

C Rating (Intermittent)			
NA	Standard	bhp Standard	rpm
	14.7	19.7	2200
	16.1	21.6	2400
	17.2	23.0	2600
	18.5	24.8	2800
	19.7	26.4	3000
	21.0	28.2	3400
NA	Derate	Derate	
	13.7	18.4	2200
	16.8	22.5	2800
	17.7	23.7	3000

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

C1.1 U.S. EPA Tier 4 Final Ratings

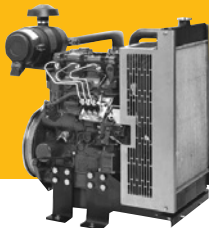
C Rating (Intermittent)			
NA	bkW	bhp	rpm
	9.9	13.3	1800*
	14.7	19.7	2200
	18.4	24.7	2800

*Special rating

Emission standards: U.S. EPA Tier 4 Final. Nonroad engines less than 19 kW (25 hp) are not currently subject to EU emission standards.

C1.1

POWER UNIT



Specifications

**U.S. EPA Tier 4 Final,
EU Stage IIIA**

Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)
Displacement	1.1 liters (69 in ³)
Ship Weight	129 kg (284 lbs)

Approximate Dimensions:

Length	778 mm (30.6 in)
Width	438 mm (17.2 in)
Height	730 mm (28.7 in)

C1.1 Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	17.3	23.2	2800
	18.1	24.3	3000

Available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas.

C1.1 U.S. EPA Tier 4 Final Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	14.7	19.7	2200
	18.4	24.7	2800

Emission standards: U.S. EPA Tier 4 Final. Nonroad engines less than 19 kW (25 hp) are not currently subject to EU emission standards.

C1.5

ENGINE



Specifications

U.S. EPA Tier 4 Final, EU Stage IIIA

Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.496 liters (91 in ³)
Ship Weight	149 kg (328.5 lbs) (NA) 156.5 kg (345 lbs) (T)

Approximate Dimensions:

Length	572 mm (22.5 in) (NA, T)
Width	453 mm (17.8 in) (NA) 512 mm (20.2 in) (T)
Height	643 mm (25.3 in) (NA, T)

EU Stage IIIA Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	20.9	28.0	2200
	22.3	29.9	2400
	23.4	31.4	2600
	24.4	32.7	2800
	25.1	33.7	3000
T			
	23.1	31.0	2200
	25.2	33.8	2400
	27.3	36.6	2600
	29.4	39.4	2800
	30.0	40.2	3000

U.S. EPA Tier 4 Final Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	18.4	24.7	2100
T			
	18.4	24.7	1800*
	25.2	33.8	2400
	27.0	36.2	2800
	27.6	37.0	3000

*Special rating

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA

C1.5

POWER UNIT



Specifications

**U.S. EPA Tier 4 Final,
EU Stage IIIA**

Engine Configuration . . .	In-Line 3, Diesel
Bore x Stroke	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.496 liters (91 in ³)
Ship Weight	175 kg (385.8 lbs)

Approximate Dimensions:

Length	820 mm (32.3 in)
Width	497 mm (19.6 in)
Height	793 mm (31.2 in)

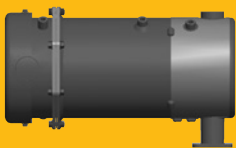
EU Stage IIIA Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	24.2	32.5	3000

U.S. EPA Tier 4 Final Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	27.0	36.0	2800

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA



C1.5

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Final

Approximate Dimensions:

Length 449 mm (17.6 in)

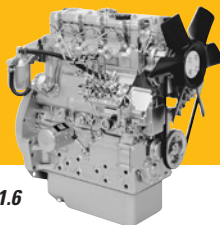
Weight 13 kg (28.7 lbs)

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter with range of outlet options
- Passive regeneration system with backup

C1.6 | C1.7

ENGINES



C1.6

Specifications

	C1.6 EU Stage IIIA	C1.7 EU Stage IIIA
Engine Configuration . . .	In-Line 4, Diesel	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in) . . .	84 x 100 mm (3.3 x 3.9 in)
Displacement	1.5 liters (92 in ³)	1.66 liters (101 in ³)
Ship Weight	106.8 kg (235.4 lbs)	160 kg (352.7 lbs)
Approximate Dimensions:		
Length	591 mm (23.3 in)	564 mm (22.2 in)
Width	420 mm (16.5 in)	453 mm (17.8 in)
Height	576 mm (22.7 in)	654 mm (25.7 in)

C1.6 EU Stage IIIA Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	24.6	33.0	2800
	26.5	35.5	3000

C1.7 EU Stage IIIA Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	23.6	31.6	2400
	26.1	35.0	2600

Emission standards: EU Stage IIIA



C2.2 ENGINE

Specifications

**U.S. EPA Tier 4 Final,
EU Stage IIIA, EU Stage IIIB**

Engine Configuration	In-Line 4, Diesel
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)
Displacement	2.2 liters (135 in ³)
Ship Weight	184 kg (406 lbs) (NA) 194 kg (427.7 lbs) (T, TA)

Approximate Dimensions:

Length	661.5 mm (26 in) (NA) 662 mm (26.1 in) (T, TA)
Width	464 mm (18.3 in) (NA) 489 mm (19.3 in) (T, TA)
Height	676 mm (26.6 in) (NA) 698 mm (27.5 in) (T, TA)

EU Stage IIIA Ratings

		C Rating (Intermittent)	
NA	bkW Standard	bhp Standard	rpm
	31.0	41.6	2200
	34.1	45.7	2400
	35.7	47.9	2600
	36.4	48.8	2800

U.S. EPA Tier 4 Final Ratings

		C Rating (Intermittent)	
NA	bkW	bhp	rpm
	31.4	42.1	2600
	32.8	44.0	2400
	35.4	47.5	2600
	35.7	47.9	2600
	36.4	48.8	2800-3000

U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

		C Rating (Intermittent)	
T	bkW	bhp	rpm
	40.0	53.6	2600
	41.5	55.7	2600
	44.7	60.0	2800
	45.5	61.0	3000

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA or EU Stage IIIB

C2.2

POWER UNIT



Specifications

	U.S. EPA Tier 4 Final, EU Stage IIIA, EU Stage IIIB
Engine Configuration	In-Line 4, Diesel
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)
Displacement	2.2 liters (135 in ³)
Ship Weight	218 kg (480 lbs) (NA) 228 kg (502 lbs) (T)
Approximate Dimensions:	
Length	946 mm (37.2 in) (NA) 973 mm (38.3 in) (T)
Width	513 mm (20.2 in) (NA) 590 mm (23.2 in) (T)
Height	854 mm (33.6 in) (NA) 973 mm (38.3 in) (T)

EU Stage IIIA Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA			
	36.4	48.8	2800
	36.4	48.8	3000

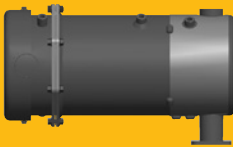
U.S. EPA Tier 4 Final Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
NA			
	36.4	48.8	2800
	36.4	48.8	3000

U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
T			
	44.7	59.9	2800
	45.5	61.0	3000

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIA or EU Stage IIIB



C2.2

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Final,
EU Stage IIIB

Approximate Dimensions:

Length	449 mm (17.6 in)
Weight	16 kg (35.3 lbs)
Diameter	198 mm (7.8 in)

Multiple customizable configuration options available

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter with range of outlet options
- Passive regeneration system with backup

C3.4

ENGINE



Specifications

U.S. EPA Tier 4 Interim, EU Stage IIIA

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	94 x 120 mm (3.7 x 4.72 in)
Displacement	3.3 liters (201 in ³)
Ship Weight	245 kg (540 lbs) (NA) 265 kg (584 lbs) (T)

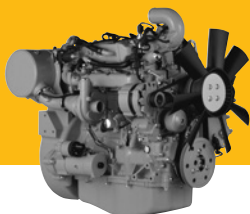
Approximate Dimensions:

Length	781 mm (30.7 in) (NA) 784 mm (30.9 in) (T)
Width	590 mm (23.2 in) High Turbo 649 mm (25.5 in) Low Turbo
Height	722 mm (28.4 in) (NA) 821.3 mm (32.3 in) (T)

U.S. EPA Tier 4 Interim, EU Stage IIIA Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	47	63	2500
T			
	55	73.7	2500

Emission standards: U.S. EPA Tier 4 Interim, EU Stage IIIA



C3.4B

ENGINE

Specifications

	U.S. EPA Tier 4 Final, EU Stage IIIB < 56 bkW (75 bhp)
Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in ³)
Ship Weight	251 kg (553.4 lbs) (T)
Approximate Dimensions:	
Length	747.5 mm (29.4 in)
Width	662 mm (26.1 in)
Height	822 mm (32.4 in)

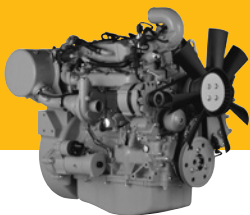
U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	45.0	60.3	2200
	47.0	63.0	2500
	50.0	67.0	2200
	55.4	74.3	2200 & 2500

Emission standards: U.S. EPA Tier 4 Final, EU Stage IIIB

C3.4B

ENGINE



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB > 56 bkW (75 bhp)	U.S. EPA Tier 4 Final, EU Stage IV > 56 bkW (75 bhp)
Engine Configuration ...	In-Line 4, Diesel	In-Line 4, Diesel
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in)	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in ³)	3.4 liters (207.5 in ³)
Ship Weight	251 kg (553.4 lbs)	251 kg (553.4 lbs)
Approximate Dimensions:		
Length	747.5 mm (29.4 in)	747.5 mm (29.4 in)
Width	662 mm (26.1 in)	662 mm (26.1 in)
Height	822 mm (32.4 in)	822 mm (32.4 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

TA (ATAAC)	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
63.0	84.5		2200	83.0	111.3	2200
66.0	88.5		2200 & 2500	86.0	115.3	2500
70.0	94.0		2200	—	—	—
75.0	100.6		2200 & 2500	—	—	—

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
63.0	84.5		2200	83.0	111.3	2200
66.0	88.5		2500	86.0	115.3	2500
70.0	94.0		2200	90.0	120.7	2200
75.0	100.6		2200 & 2500	—	—	—

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV



C3.4B

POWER UNIT

Specifications

	U.S. EPA Tier 4 Final, EU Stage IIIB < 56 bkW (75 bhp)	U.S. EPA Tier 4 Interim, EU Stage IIIB > 56 bkW (75 bhp)
Engine Configuration	In-Line 4, Diesel	In-Line 4, Diesel
Bore x Stroke	99 x 110 mm (3.9 x 4.3 in) . . .	99 x 110 mm (3.9 x 4.3 in)
Displacement	3.4 liters (207.5 in ³)	3.4 liters (207.5 in ³)
Ship Weight	359 kg (791.5 lbs)	359 kg (791.5 lbs)

Approximate Dimensions:

	Rear-Mounted Aftertreatment
Length	1242 mm (48.9 in)
Width	705 mm (27.7 in)
Height	957 mm (37.6 in)

U.S. EPA Tier 4 Final, EU Stage IIIB Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	55.4	74	2200

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

TA (ATAAC)	C Rating (Intermittent)		
	bkW	bhp	rpm
	66.0	88.5	2200
	75.0	100.6	2200
	86.0	115.0	2500

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB

C3.4B

AFTERTREATMENT

Wall-Flow*Through-Flow*

Specifications

U.S. EPA Tier 4 Final, EU Stage IIIB
< 56 bkW (75 bhp)

Approximate Dimensions:

	Wall-Flow DPF	Through-Flow DPF
Length	541 mm (21.3 in)	509 mm (20 in)
Diameter	180 mm (7.1 in)	149 mm (5.8 in)
Weight	20 kg (44 lbs)	14 kg (30.8 lbs)

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- Flex pipe connection kit with straight and 90° options for flexibility

U.S. EPA Tier 4 Interim, EU Stage IIIB
> 56 bkW (75 bhp)

Approximate Dimensions:

	Wall-Flow DPF
Length	541 mm (21.3 in)
Diameter	180 mm (7.1 in)
Weight	20 kg (44 lbs)

Standard Emissions Control Equipment

- **DPF:** Diesel Particulate Filter
- **DOC:** Diesel Oxidation Catalyst

U.S. EPA Tier 4 Final, EU Stage IV
> 56 bkW (75 bhp)

Approximate Dimensions:

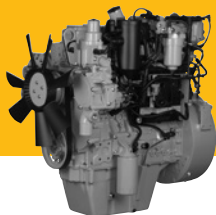
	DOC	SCR
Length	320 mm (12.6 in)	520 mm (20.47 in)
Diameter	196 mm (7.7 in)	251 mm (9.88 in)
Weight	15 kg (33 lbs)	20 kg (44 lbs)

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **SCR:** Selective Catalytic Reduction

C4.4 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 4, Diesel	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in.) . . .	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (268.5 in ³)	4.4 liters (268.5 in ³)
Ship Weight	400-450 kg (881.8-992.0 lbs) . .	400 kg (881.8 lbs) (TA) 420 kg (926 lbs) (TTA)
Approximate Dimensions:		
Length	845.1 mm (33.3 in) (TA, TTA) . .	845.1 mm (33.3 in) (TA, TTA)
Width	772.4 mm (30.4 in) (TA)	772.4 mm (30.4 in) (TA) 741.6 mm (29.1 in) (TTA)
Height	848.2 mm (33.4 in) (TA)	848.2 mm (33.4 in) (TA) 867.6 mm (34.1 in) (TTA)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)					
65.9	88.4	2200	61.5	82.5	2200
70.0	93.9	2200	74.5	100.0	2200
85.9	115.2	2200	82.0	110.0	2200
—	—	—	98.0	131.4	2200
92.5	124.0	2200	102.1	137.0	2200
—	—	—	106.0	142.1	2200
—	—	—	110.1	147.6	2200
TTA (ATAAC)					
105.1	141.0	2200	117.0	157.0	2200
112.0	150.0	2200	129.4	173.5	2200

U.S. EPA Tier 4 Final, EU Stage IV Ratings

C Rating (Intermittent)		
bkW	bhp	rpm
TA		
70.0	93.9	2200
74.4	99.8	2200
82.0	109.9	2200
85.9	115.2	2200
91.0	122.0	2200
92.6	124.2	2200
97.9	131.3	2200
102.1	136.9	2200
106.0	142.1	2200
110.1	147.6	2200
TTA		
105.0	140.8	2200
112.0	150.2	2200
117.0	156.9	2200
129.4	173.5	2200

B Ratings to be added when available

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C4.4 ACERT

POWER UNIT



Specifications

U.S. EPA Tier 4 Interim, EU Stage IIIB

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (268.5 in ³)
Ship Weight	650 kg (1433 lbs) (TA) 700 kg (1543 lbs) (TTA)

Approximate Dimensions:

Length	1433 mm (56.4 in) (TA, TTA)
Width	820 mm (32.3 in) (TA) 795 mm (31.3 in) (TTA)
Height	1126 mm (44.3 in) < 82 bkW (110 bhp) (TA) 1150 mm (45.3 in) > 82 bkW (110 bhp) (TA) 1150 mm (45.3 in) (TTA)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)						
	—	—	—	74.5	100	2200
	—	—	—	82	110	2200
	92.5	124	2200	102.1	137	2200
	—	—	—	110	148	2200
TTA (ATAAC)						
	—	—	—	117	157	2200
	—	—	—	129.4	173.5	2200

U.S. EPA Tier 4 Final, EU Stage IV power unit information will be available later in 2013.

Emission standards: U.S. EPA Tier 4 Interim, EU Stage IIIB



C4.4 ACERT

AFTERTREATMENT

Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB ≤ 82 <i>bkW</i> (110 <i>bhp</i>)	U.S. EPA Tier 4 Interim, EU Stage IIIB > 82 <i>bkW</i> (110 <i>bhp</i>)
Approximate Dimensions:		
Length	802.5 mm (31.6 in)	828 mm (32.6 in)
Width	365 mm (14.3 in)	365 mm (14.3 in)
Height	279 mm (11 in)	300.5 mm (11.8 in)
Weight	34 kg (75 lbs)	37 kg (81.6 lbs)
Diameter	244.9 mm (9.6 in)	270.3 mm (10.6 in)

Standard Emissions Control Equipment

- **DOC:** Diesel Oxidation Catalyst
- **DPF:** Diesel Particulate Filter
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

Specifications

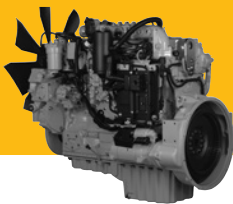
	U.S. EPA Tier 4 Final, EU Stage IV ≤ 92.6 <i>bkW</i> (124.2 <i>bhp</i>) <i>DOC/SCR</i>	U.S. EPA Tier 4 Final, EU Stage IV > 92.6 <i>bkW</i> (124.2 <i>bhp</i>) <i>DOC/SCR</i>	U.S. EPA Tier 4 Final, EU Stage IV <i>DPF/SCR</i> (<i>TTA only</i>)
Approximate Dimensions:			
Length	647 mm (25.5 in)	675 mm (25.6 in).....	722 mm (28.4 in)
Width	538 mm (21.18 in)	565 mm (22.2 in).....	695 mm (27.4 in)
Height	335 mm (13.19 in)	355 mm (13.97 in).....	430 mm (16.9 in)
Weight ...	40 kg (88 lbs)	45 kg (99 lbs)	80 kg (176.4 lbs)

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **SCR:** Selective Catalytic Reduction
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

C6.6 ACERT

ENGINE



Specifications

U.S. EPA Tier 4 Interim, EU Stage IIIB

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	6.6 liters (402.8 in ³)
Ship Weight	695 kg (1532 lbs)

Approximate Dimensions:

Length	1063.7 mm (41.9 in)
Width	753 mm (29.6 in)
Height	907 mm (35.7 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

TA (ATAAC)	bkW	C Rating (Intermittent)	
		bhp	rpm
	89.0	119.3	2200
	116.5	156.2	2200
	129.4	173.5	2200

Emission standards: U.S. EPA Tier 4 Interim, EU Stage IIIB



C6.6 ACERT

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Interim,
EU Stage IIIB

Approximate Dimensions:

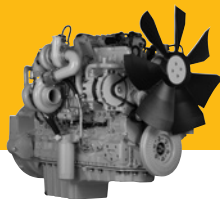
Length	852.7 mm (33.6 in)
Width	364.6 mm (14.35 in)
Height	352 mm (13.9 in)
Weight	40 kg (88.1 lbs)
Diameter	283 mm (11.1 in)

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

C7.1 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration ...	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.1 x 5.3 in)	105 x 135 mm (4.1 x 5.3 in)
Displacement	7.0 liters (427.7 in ³)	7.0 liters (427.7 in ³)
Ship Weight	715 kg (1576 lbs)	715 kg (1576 lbs)
Approximate Dimensions:		
Length	1063.7 mm (41.9 in) (TTA)	1063.7 mm (41.9 in) (TA, TTA)
Width	820.2 mm (32.3 in) (TTA)	753 mm (29.6 in) (TA) 820.2 mm (32.3 in) (TTA)
Height	907 mm (35.7 in) (TTA)	907 mm (35.7 in) (TA, TTA)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

	B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TTA (ATAAC)									
	140.0	187.7	2200	186.5	250.1	2200	225.0	301.7	2200
	151.0	202.5	2200	205.0	274.9	2200	—	—	—
	158.5	212.5	2200	—	—	—	—	—	—
	168.0	225.3	2200	—	—	—	—	—	—
	176.5	236.7	2200	—	—	—	—	—	—

U.S. EPA Tier 4 Final, EU Stage IV Ratings

	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)						
	116.0	156.0	2200	151.0	202.0	2200
	129.0	173.0	2200	—	—	—
TTA (ATAAC)						
	151.0	202.0	2200	186.0	249.0	2200
	168.0	225.0	2200	205.0	275.0	2200
	—	—	—	225.0	302.0	2200

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV



C7.1 ACERT

POWER UNIT

Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.13 x 5.3 in)	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.0 liters (427.7 in ³)	7.0 liters (427.7 in ³)
Ship Weight	1200 kg (2645.5 lbs)	1000 kg (2204.0 lbs)
Approximate Dimensions:		
Length	1902 mm (74.9 in)	1804 mm (71.0 in)
Width	916 mm (36.06 in)	916 mm (36.06 in)
Height	1617 mm (63.7 in)	1474 mm (58.03 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

TTA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	151	202	1800-2200	186	250	1800-2200
	168	225	1800-2200	205	275	1800-2200

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TTA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	151	202	1800-2200	186	250	1800-2200
	168	225	1800-2200	205	275	1800-2200

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C7.1 ACERT

AFTERTREATMENT



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB ≤ 172 bkW (231 bhp)	U.S. EPA Tier 4 Interim, EU Stage IIIB ≥ 172 bkW (231 bhp)
Approximate Dimensions:		
Length	918.7 mm (36.2 in)	918.7 mm (36.2 in)
Width	714.4 mm (28.1 in)	714.4 mm (28.1 in)
Height	618.5 mm (24.3 in)	643.9 mm (25.3 in)
Weight	124 kg (273.4 lbs)	134 kg (295.4 lbs)
Diameter	287 mm (11.3 in)	337.8 mm (13.3 in)

Standard Emissions Control Equipment

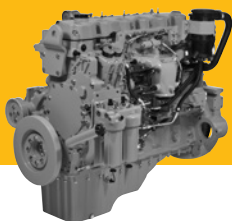
- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

Specifications

	U.S. EPA Tier 4 Final, EU Stage IV
Approximate Dimensions:	
Length	771 mm (30.4 in)
Width	793 mm (31.2 in)
Height	468 mm (18.4 in)
Weight	90 kg (198 lbs)

Standard Emissions Control Equipment

- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System
- **SCR:** Selective Catalytic Reduction
- 3" flex pipe connection kit with straight, 45°, and 90° options for flexibility



C9.3 ACERT

ENGINE

Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	115 x 149 mm (4.53 x 5.87 in) . .	115 x 149 mm (4.53 x 5.87 in)
Displacement	9.3 liters (567.5 in ³)	9.3 liters (567.5 in ³)
Ship Weight	885 kg (1950 lbs)	885 kg (1950 lbs)
Approximate Dimensions:		
Length	1150 mm (45.3 in)	1119 mm (44 in)
Width	827 mm (32.6 in)	1025 mm (40.4 in)
Height	1123 mm (44.2 in)	1066 mm (41.9 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
224	300	1800-	242	325	1800-	261	350	1800-
		2200			2200			2200

U.S. EPA Tier 4 Final, EU Stage IV Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)											
224	300	1800-	242	325	1800-	261	350	1800-	290	389	1800-
		2200			2200			2200			2200
—	—	—	—	—	—	—	—	—	298	400	2000

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C9.3 ACERT

POWER UNIT



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	115 x 149 mm (4.53 x 5.87 in) . . .	115 x 149 mm (4.53 x 5.87 in)
Displacement	9.3 liters (567.5 in ³)	9.3 liters (567.5 in ³)
Ship Weight	1839 kg (4055 lbs)	1678 kg (3699 lbs)
Approximate Dimensions:		
Length	1845 mm (72.6 in)	2042 mm (80.4 in)
Width	1118 mm (44.0 in)	1094 mm (43.1 in)
Height	1554 mm (61.2 in)	1741 mm (68.5 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	224	300	1800- 2200	242	325	1800- 2200	261	350	1800- 2200

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	224	300	1800- 2200	242	325	1800- 2200	261	350	1800- 2200	290	389	1800- 2200
	—	—	—	—	—	—	—	—	—	298	400	2000

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV



C9.3 ACERT

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Interim,
EU Stage IIIB

Approximate Dimensions:

Length	925.89 mm (36.45 in)
Width	714.4 mm (28.12 in)
Height	392.21 mm (15.44 in)
Weight	130 kg (287 lbs)
Diameter	304.8 mm (12 in)

Multiple customizable configuration options available

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System

Specifications

U.S. EPA Tier 4 Final, EU Stage IV

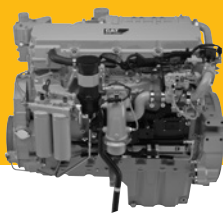
	Standard Configuration	PETU Configuration up to 48.4 L (51.1 U.S. qt)
Approximate Dimensions:		
Length	885 mm (34.8 in)	854 mm (33.6 in)
Width	870 mm (34.25 in)	287 mm (11.3 in)
Height	570 mm (22.4 in)	551 mm (21.7 in)
Weight	212 kg (467 lbs)	19.42 kg (42.8 lbs)

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

C13 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in) . . .	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (762.8 in ³)	12.5 liters (762.8 in ³)
Ship Weight	1350 kg (2976 lbs)	1143 kg (2520 lbs)
Approximate Dimensions:		
Length	1203 mm (47.2 in)	1272 mm (50.1 in)
Width	933.1 mm (36.7 in)	996 mm (39.2 in)
Height	1186 mm (46.7 in)	1132 mm (44.6 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

A Rating (Continuous)	B Rating	C Rating (Intermittent)	D Rating	E Rating
bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm
TA (ATAAC)				
287 385 1800- 2100	309 415 1800- 2100	328 440 1800- 2100	354 475 1800- 2100	388 520 1800- 2100

U.S. EPA Tier 4 Final, EU Stage IV Ratings

A Rating (Continuous)	B Rating	C Rating (Intermittent)	D Rating	E Rating
bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm
TA (ATAAC)				
287 385 1800- 2100	309 415 1800- 2100	328 440 1800- 2100	354 475 1800- 2100	388 520 1800- 2100

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C13 ACERT

POWER UNIT



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.18 in) . . .	130 x 157 mm (5.1 x 6.18 in)
Displacement	12.5 liters (762.8 in ³)	12.5 liters (762.8 in ³)
Ship Weight	2304 kg (5080 lbs)	2085 kg (4596 lbs)
Approximate Dimensions:		
Length	2085 mm (82.1 in)	2122 mm (83.5 in)
Width	1157 mm (45.6 in)	1247 mm (49 in)
Height	2082 mm (81.9 in)	1928 mm (75.9 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

A Rating (Continuous)	B Rating	C Rating (Intermittent)	D Rating	E Rating
bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm
287 385 1800- 2100	309 415 1800- 2100	328 440 1800- 2100	354 475 1800- 2100	388 520 1800- 2100

U.S. EPA Tier 4 Final, EU Stage IV Ratings

A Rating (Continuous)	B Rating	C Rating (Intermittent)	D Rating	E Rating
bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm
287 385 1800- 2100	309 415 1800- 2100	328 440 1800- 2100	354 475 1800- 2100	388 520 1800- 2100

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C13 ACERT

AFTERTREATMENT



Specifications

U.S. EPA Tier 4 Interim,
EU Stage IIIB

Approximate Dimensions:

Length	1053 mm (41.5 in)
Width	779.8 mm (30.7 in)
Height	451.3 mm (17.8 in)
Weight	180 kg (397 lbs)
Diameter	330.2 mm (13 in)

Multiple customizable configuration options available

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System

Specifications

U.S. EPA Tier 4 Final, EU Stage IV

**PETU Configuration
up to 48.4 L (51.1 U.S. qt)**

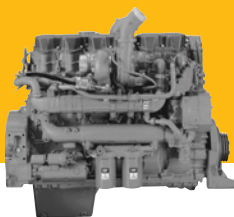
	Standard Configuration	PETU Configuration up to 48.4 L (51.1 U.S. qt)
Approximate Dimensions:		
Length	1077 mm (42.4 in)	854 mm (33.6 in)
Width	1069 mm (42.1 in)	287 mm (11.3 in)
Height	654 mm (25.7 in)	551 mm (21.7 in)
Weight	212 kg (467 lbs)	19.42 kg (42.8 lbs)

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

C15 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 6, Diesel	In-Line 4, Diesel
Bore x Stroke	137 x 171 mm (5.4 x 6.73 in) . . .	137 x 171 mm (5.4 x 6.73 in)
Displacement	15.2 liters (927.6 in ³)	15.2 liters (927.6 in ³)
Ship Weight	1666 kg (3673 lbs)	1542 kg (3395.5 lbs)
Approximate Dimensions:		
Length	1438 mm (56.6 in)	1438 mm (56.6 in)
Width	943 mm (37.1 in)	969 mm (38.1 in)
Height	1239 mm (48.8 in)	1248 mm (49.1 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)											
354	475	1800-2100	354	475	1800-2100	403	540	1800-2100	433	580	1800-2100

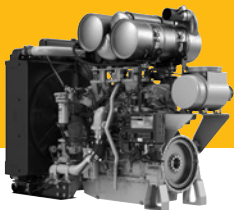
U.S. EPA Tier 4 Final, EU Stage IV Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA											
354	475	1800-2100	354	475	1800-2100	403	540	1800-2100	433	580	1800-2100

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C15 ACERT

POWER UNIT



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration ...	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	137 x 171 mm (5.39 x 6.73 in) ...	137 x 171 mm (5.39 x 6.73 in)
Displacement	15.2 liters (927.6 in ³)	15.2 liters (927.6 in ³)
Ship Weight	2113 kg (4658 lbs)	2650 kg (5842 lbs)
Approximate Dimensions:		
Length	2172 mm (85.5 in)	2488 mm (98.0 in)
Width	1180 mm (46.5 in)	1229 mm (48.4 in)
Height	1912 mm (75.3 in)	2006 mm (79.0 in)

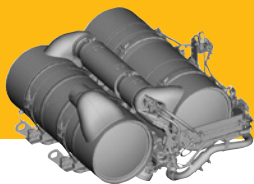
U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)											
354	475	1800- 2100	354	475	1800- 2100	403	540	1800- 2100	433	580	1800- 2100

U.S. EPA Tier 4 Final, EU Stage IV Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA											
354	475	1800- 2100	354	475	1800- 2100	403	540	1800- 2100	433	580	1800- 2100

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV



C15 ACERT

AFTERTREATMENT

Specifications

U.S. EPA Tier 4 Interim,
EU Stage IIIB

Approximate Dimensions:

Length	1053 mm (41.5 in)
Width	779.8 mm (30.7 in)
Height	451.3 mm (17.8 in)
Weight	180 kg (397 lbs)
Diameter	330.2 mm (13 in)

Multiple customizable configuration options available

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NOx Reduction System

Specifications

U.S. EPA Tier 4 Final, EU Stage IV

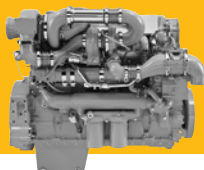
	IND-A & IND-B Ratings	IND-C & IND-D Ratings	PETU Configuration up to 48.4 L (51.1 U.S. qt)
Approximate Dimensions:			
Length	1077 mm (42.4 in)	1153 mm (45.4 in)....	854 mm (33.6 in)
Width	1069 mm (42.1 in)	1112 mm (43.8 in)....	287 mm (11.3 in)
Height	654 mm (25.7 in)	652 mm (25.7 in).....	551 mm (21.7 in)
Weight	256 kg (564.4 lbs)	268 kg (590.8 lbs)....	19.42 kg (42.8 lbs)
Diameter ..	330.2 mm (13 in)	355.6 mm (14 in)	

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NOx Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

C18 ACERT

ENGINE



Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration ...	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.5 in ³)	18.1 liters (1104.5 in ³)
Ship Weight	1580-1717 kg (3583-3785 lbs)	1542 kg (3399.5 lbs)
Approximate Dimensions:		
Length	1438 mm (56.6 in)	1438 mm (56.6 in)
Width	943-1132 mm (37.1-44.6 in)	969-1132 mm (38.1-44.6 in)
Height	1239-1356 mm (48.8-53.4 in)	1248-1356 mm (49.1-53.4 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)	447	600	1800-1900	447	600	1800-1900	470	630	1800-1900
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-1900

U.S. EPA Tier 4 Interim Ratings

TTA (ATAAC)	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	563	755	1800-1900	597	800	1800-1900

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2000	447	600	1800-2000	470	630	1800-2000

U.S. EPA Tier 4 Final Ratings

TTA (ATAAC)	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	563	755	1800	597	800	1800

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV. Nonroad engines greater than 560 kW (750 hp) are not currently subject to EU emission standards.



C18 ACERT

POWER UNIT

Specifications

	U.S. EPA Tier 4 Interim, EU Stage IIIB	U.S. EPA Tier 4 Final, EU Stage IV
Engine Configuration . . .	In-Line 6, Diesel	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in) . . .	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.5 in ³)	18.1 liters (1104.5 in ³)
Ship Weight	2113 kg (4658 lbs)	2650 kg (5842 lbs)
Approximate Dimensions:		
Length	2172 mm (85.5 in)	2532 mm (99.7 in)
Width	1180 mm (46.5 in)	1241 mm (48.9 in)
Height	1912 mm (75.3 in)	2006 mm (79.0 in)

U.S. EPA Tier 4 Interim, EU Stage IIIB Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	447	600	1800- 1900	447	600	1800- 1900	470	630	1800- 1900

U.S. EPA Tier 4 Final, EU Stage IV Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800- 2000	447	600	1800- 2000	470	630	1800- 2000

Emission standards: U.S. EPA Tier 4 Interim or U.S. EPA Tier 4 Final, EU Stage IIIB or EU Stage IV

C18 ACERT

AFTERTREATMENT



Specifications

U.S. EPA Tier 4 Interim,
EU Stage IIIB

Approximate Dimensions:

Length	1097 mm (43 in)
Width	762 mm (30 in)
Height	468 mm (18 in)
Weight	180 kg (397 lbs)
Diameter	330.2 mm (13 in)

Multiple customizable configuration options available

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **NRS:** NO_x Reduction System

Specifications

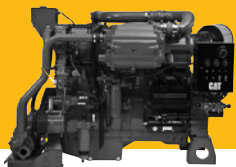
U.S. EPA Tier 4 Final, EU Stage IV

	Standard Configuration	PETU Configuration up to 48.4 L (51.1 U.S. qt)
Approximate Dimensions:		
Length	1153 mm (45.4 in)	854 mm (33.6 in)
Width	1112 mm (43.8 in)	287 mm (11.3 in)
Height	652 mm (25.7 in)	551 mm (21.7 in)
Weight	268 kg (590.8 lbs)	19.42 kg (42.8 lbs)

Standard Emissions Control Equipment

- Cat Regeneration System
- **CEM:** Clean Emissions Module, including:
 - **DOC:** Diesel Oxidation Catalyst
 - **DPF:** Diesel Particulate Filter
- **ECU:** Aftertreatment Electronic Control Unit
- **NRS:** NO_x Reduction System
- **PETU:** Pump Electronic Tank Unit
- **SCR:** Selective Catalytic Reduction

Fire Pump ENGINE



Specifications

C18 ACERT

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	1953 kg (4306 lbs)

Approximate Dimensions:

Length	1889 mm (74.4 in)
Width	1081.7 mm (42.6 in)
Height	1379.6 mm (54.3 in)

C18 ACERT Fire Pump Ratings FM Approved, UL Listed

1500 rpm		1750 rpm		1900 rpm		2100 rpm	
bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp
Tier 2							
—	—	597	800	597	800	597	800
Tier 3							
—	—	522	700	522	700	522	700
—	—	447	600	447	600	447	600

Emission standards: U.S. EPA Tier 3 or U.S. EPA Tier 2 emission standards for stationary emergency fire pump engines. FM, UL, and NFPA standards.

C27 ACERT | C32 ACERT

ENGINES

C32 ACERT™



Specifications

	C27 ACERT U.S. EPA Tier 4 Interim	C32 ACERT U.S. EPA Tier 4 Interim
Engine Configuration ...	V-12, Diesel.	V-12, Diesel
Bore x Stroke	137.2x152.4 mm (5.4x6.0 in) ...	145.0x162 mm (5.71x6.38 in)
Displacement	27 liters (1649.5 in ³)	32.1 liters (1959 in ³)
Ship Weight	3004 kg (6625 lbs)	3004 kg (6625 lbs)
Approximate Dimensions:		
Length	1874 mm (73.8 in)	1874 mm (73.8 in)
Width	1600 mm (63.0 in)	1600 mm (63.0 in)
Height	1370 mm (53.9 in)	1370 mm (53.9 in)

C27 ACERT U.S. EPA Tier 4 Interim Ratings

A Rating (Continuous)	B Rating	C Rating (Intermittent)	D Rating
bkW bhp rpm	bkW bhp rpm	bkW bhp rpm	bkW bhp rpm
TA (ATAAC)			
597 800 1800-	653 875 1800-	709 950 1800-	783 1050 1800-
2100	2100	2100	2100

C32 ACERT U.S. EPA Tier 4 Interim Ratings

B Rating	C Rating (Intermittent)	D Rating
bkW bhp rpm	bkW bhp rpm	bkW bhp rpm
TA (ATAAC)		
709 950 1800-	839 1125 1800-	895 1200 1800-
2100	2100	2100

Emission standards: U.S. EPA Tier 4 Interim. Nonroad engines greater than 560 kW (750 hp) are not currently subject to EU emission standards.



C0.5

C0.5 | C0.7

ENGINES

Specifications

	C0.5 U.S. EPA Tier 4 Interim Equivalent	C0.7 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 2, Diesel	In-Line 3, Diesel
Bore x Stroke	67 x 72 mm (2.6 x 2.8 in)	67 x 72 mm (2.6 x 2.8 in)
Displacement	0.5 liters (31 in ³)	0.76 liters (46.4 in ³)
Ship Weight (NA)	57 kg (126 lbs)	71 kg (156.5 lbs)
Approximate Dimensions:		
Length	407 mm (16.00 in)	480 mm (18.9 in)
Width	371 mm (14.60 in)	371 mm (14.6 in)
Height	523 mm (20.60 in)	528 mm (20.8 in)

C0.5 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	8.2	11.0	2800
	8.8	11.8	3000
	10.2	13.7	3600

C0.7 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	12.2	16.4	2800
	13.2	17.7	3000
	15.3	20.5	3600

Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C1.1 | C1.5

ENGINES

C1.1



Specifications

	C1.1 U.S. EPA Tier 4 Interim Equivalent	C1.5 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 3, Diesel	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.1 liters (69 in ³)	1.496 liters (91 in ³)
Ship Weight (NA)	87 kg (191 lbs)	149 kg (328 lbs) (NA) 156.5 kg (345 lbs) (T)
Approximate Dimensions:		
Length	491 mm (19.33 in)	572 mm (22.50 in) (NA, T)
Width	400 mm (15.7 in)	453 mm (17.8 in) (NA) 512 mm (20.2 in) (T)
Height	576 mm (22.7 in)	643 mm (25.30 in) (NA, T)

C1.1 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		rpm
	bkW Std/Derate	bhp Std/Derate	
	14.7 / 13.7	19.7 / 18.4	2200
	17.3 / 16.1	23.2 / 21.6	2600
	18.5 / 16.8	24.8 / 22.6	2800
	19.7 / 17.7	26.4 / 23.7	3000
	21.0	28.2	3400

C1.5 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		rpm
	bkW	bhp	
	20.9	28	2200
	22.3	29.9	2400
	23.4	31.4	2600
	24.4	32.7	2800
	25.1	33.7	3000
T			
	23.1	31	2200
	25.2	33.8	2400
	27.3	36.6	2600
	29.4	39.4	2800
	30.0	40.2	3000

Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C1.1 | C1.5

POWER UNITS

Specifications

	C1.1 U.S. EPA Tier 4 Interim Equivalent	C1.5 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 3, Diesel	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)	84 x 90 mm (3.3 x 3.5 in)
Displacement	1.1 liters (69 in ³)	1.496 liters (91 in ³)
Ship Weight (NA)	129 kg (284 lbs)	175 kg (385.8 lbs)
Approximate Dimensions:		
Length	778 mm (30.6 in)	820 mm (32.3 in)
Width	438 mm (17.2 in)	497 mm (19.6 in)
Height	730 mm (28.7 in)	793 mm (31.2 in)

C1.1 U.S. EPA Tier 4 Interim Equivalent Ratings

C Rating (Intermittent)			
NA	bkW	bhp	rpm
	17.9	24	3000

C1.5 U.S. EPA Tier 4 Interim Equivalent Ratings

C Rating (Intermittent)			
NA	bkW	bhp	rpm
	24.2	32.5	3000

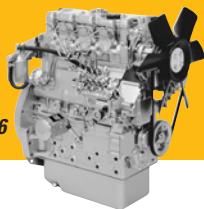
Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C1.6 | C1.7

ENGINES

C1.6



Specifications

	C1.6 U.S. EPA Tier 4 Interim Equivalent	C1.7 U.S. EPA Tier 4 Interim Equivalent
Engine Configuration . . .	In-Line 4, Diesel	In-Line 3, Diesel
Bore x Stroke	77 x 81 mm (3.0 x 3.2 in)	84 x 100 mm (3.3 x 3.9 in)
Displacement	1.5 liters (92 in ³)	1.66 liters (101 in ³)
Ship Weight (NA)	106.8 kg (235.5 lbs)	160 kg (352.7 lbs)
Approximate Dimensions:		
Length	591 mm (23.30 in)	564 mm (22.2 in)
Width	420 mm (16.5 in)	453 mm (17.8 in)
Height	576 mm (22.70 in)	654 mm (25.7 in)

C1.6 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	24.6	33.0	2800
	26.5	35.5	3000

C1.7 U.S. EPA Tier 4 Interim Equivalent Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	23.6	31.6	2400
	26.1	35.0	2600

Emission standards: U.S. EPA Tier 4 Interim equivalent

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.



C3.4

C2.2 | C3.4 ENGINES

Specifications

	C2.2 U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent	C3.4 U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration ..	In-Line 4, Diesel.....	In-Line 4, Diesel
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in).....	94 x 120 mm (3.7 x 4.72 in)
Displacement	2.2 liters (135 in ³).....	3.3 liters (201 in ³)
Ship Weight	184 kg (406 lbs) (NA) 194 kg (427.7 lbs) (T, TA)	265 kg (584 lbs) (T)
Approximate Dimensions:		
Length	664 mm (26.14 in) (NA)..... 660 mm (26.0 in) (T, TA)	784 mm (30.9 in)
Width	459 mm (18.1 in) (NA)	590 mm (23.2 in) High Turbo 649 mm (25.5 in) Low Turbo
Height	725 mm (28.5 in) (NA, T, TA) ..	821.2 mm (32.3 in) High Turbo 769 mm (30.3 in) Low Turbo

C2.2 U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent Ratings

NA	C Rating (Intermittent)		rpm
	bkW Std/Derate	bhp Std/Derate	
	31.0	41.6	2200
	34.1	45.7	2400
	35.7 / 31.4	47.9 / 42.1	2600
	37.3 / 32.8	50.0 / 43.9	2800
	38.0 / 34.0	51.0 / 45.6	3000
T			
	40 / 36.3	53.3 / 48.7	2800
	43	57.7	2600
	44.7	60.0	2800
	45.5	61.0	3000
TA (ATAAC)			
	49.3	66.1	2800

C3.4 U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	62	83	2500

Emission standards: U.S. EPA Tier 4 Interim equivalent or U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C2.2

POWER UNIT

Specifications

U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	84 x 100 mm (3.3 x 3.9 in)
Displacement	2.2 liters (135 in ³)
Ship Weight	218 kg (480 lbs) (NA) 228 kg (502 lbs) (T)

Approximate Dimensions:

Length	946 mm (37.24 in) (NA) 973 mm (38.3 in) (T)
Width	513 mm (20.3 in) (NA) 590 mm (23.23 in) (T)
Height	854 mm (33.62 in) (NA) 973 mm (38.3 in) (T)

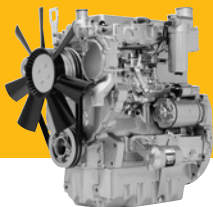
U.S. EPA Tier 4 Interim Equivalent, EU Stage IIIA Equivalent Ratings

NA	C Rating (Intermittent)		
	bkW	bhp	rpm
	37	49.6	3000
T			
	41.7	55.9	2800

Emission standards: U.S. EPA Tier 4 Interim equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

3054C

ENGINE



Specifications

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	291 kg (640 lbs) (NA) 306 kg (674.6 lbs) (T, TA)

Approximate Dimensions:

Length	663 mm (26.1 in) (NA, T, TA)
Width	470 mm (18.5 in) (NA) 597 mm (23.5 in) (T) 620 mm (24.4 in) (TA)
Height	810 mm (31.9 in) (NA, T) 775 mm (30.5 in) (TA)

U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings

NA	bkW	C Rating (Intermittent)	
		bhp	rpm
	52-64	69.7- 85.8	2000-2400
T	62-74.5	83-99.9	2000-2400
TA (ATAAC)	78-97	104.5-130	2000-2300

Emission standards: U.S. EPA Tier 2 equivalent, EU Stage II equivalent
Available for other regulated and non-regulated areas.

C4.4

ENGINE



Specifications

	U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	291 kg (640 lbs) (NA) 306 kg (674.6 lbs) (T, TA)

Approximate Dimensions:

Length	663 mm (26.1 in) (NA, T, TA)
Width	470 mm (18.5 in) (NA) 597 mm (23.5 in) (T) 620 mm (24.4 in) (TA)
Height	810 mm (31.9 in) (NA, T) 775 mm (30.5 in) (TA)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

	C Rating (Intermittent)		
NA	bkW	bhp	rpm
	54-56	72.4-75	2200
T			
	55.5-74.5	74.4-99.9	2200-2400
TA (ATAAC)			
	68-83	91.2-111.3	2200-2400

Emission standards: U.S. EPA Tier 3 equivalent (T, TA), EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas. Naturally Aspirated ratings available using EU Flexibility.

C4.4

POWER UNIT

Specifications

	U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	465 kg (1025 lbs) (NA)
Approximate Dimensions:	
Length	1260 mm (49.6 in)
Width	734 mm (28.9 in)
Height	964 mm (38 in)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

T	C Rating (Intermittent)		
	bkW	bhp	rpm
	61-68	81.8-91	2200
TA (ATAAC)			
	74.5-81	99.9-108.6	2200

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C4.4 ACERT

ENGINE



Specifications

**U.S. EPA Tier 3 Equivalent,
EU Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	360 kg (793.7 lbs) (T, TA)

Approximate Dimensions:

Length	631 mm (24.8 in) (T, TA)
Width	626 mm (24.65 in) (T, TA)
Height	823.5 mm (32.4 in) (T)
	958 mm (37.72 in) (TA)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

	C Rating (Intermittent)		
	bkW	bhp	rpm
T			
	61.5-74.5	82.5-99	2200
TA (ATAAC)			
	74.5-106	99.5-142	2200

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C4.4 ACERT

POWER UNIT

Specifications

	U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 4, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	4.4 liters (269 in ³)
Ship Weight	520 kg (1146 lbs)
Approximate Dimensions:	
Length	1358 mm (53.5 in)
Width	749 mm (29.5 in)
Height	963 mm (37.9 in)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	C Rating (Intermittent)		
	bkW	bhp	rpm
	96.5	129.4	2200

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C6.6 ACERT

ENGINE



Specifications

	U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration	In-Line 6, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in))
Displacement	6.6 liters (402.8 in ³)
Ship Weight (TA)	506 kg (1116 lbs)
Approximate Dimensions:	
Length	929 mm (36.6 in)
Width	668 mm (26.3 in)
Height	797 mm (31.4 in)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	C Rating (Intermittent)		
	bkW	bhp	rpm
	89	119.0	2200
	95	128.0	2200
	116.5	156.2	2200
	129	173.0	2500
	129.5	173.7	2200
	130	174.3	2500
	136	182.4	2200
	140	187.7	2200
	144	193.1	2200
	146	195.8	2200
	151	202.5	1800
	151	202.5	2200
	158.5	212.6	2200
	159	213.2	2200
	168	225.3	2200
	176.5	236.7	2200*
	186	249.4	2200
	205	274.9	2200*

*Specific Application

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C6.6 ACERT

POWER UNIT

Specifications

	U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 127 mm (4.1 x 5.0 in)
Displacement	6.6 liters (402.8 in ³)
Ship Weight (TA)	709 kg (1563 lbs)
Approximate Dimensions:	
Length	1708 mm (67.23 in)
Width	767 mm (30.2 in)
Height	1144 mm (45.0 in)

U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

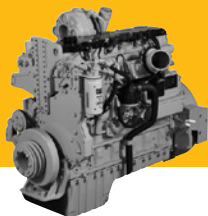
TA (ATAAC)	C Rating (Intermittent)		
	bkW	bhp	rpm
129.5	173.7	2200	
130	174.3	2500	
151	202.5	1800	
151	202.5	2200	
168	225.3	2200	

Emission standards: U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent

Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C7 ACERT

ENGINE



Specifications

**China Stage II,
U.S. EPA Tier 3 Equivalent,
EU Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	110 x 127 mm (4.33 x 5.0 in)
Displacement	7.2 liters (442 in ³)
Ship Weight	588 kg (1296 lbs)

Approximate Dimensions:

Length	1053 mm (41.5 in)
Width	758 mm (29.8 in)
Height	1032 mm (40.6 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
168	225	1800-	186	250	1800-	224	300	2100-
		2200			2200			2200
—	—	—	205	275	1800-	—	—	—
					2200			

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C7 ACERT

POWER UNIT

Specifications

**China Stage II,
U.S. EPA Tier 3 Equivalent,
EU Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	110 x 127 mm (4.33 x 5.0 in)
Displacement	7.2 liters (442 in ³)
Ship Weight	1250 kg (2756 lbs)

Approximate Dimensions:

Length	2029.5 mm (79.9 in)
Width	974.8 mm (38.4 in)
Height	1986.3 mm (78.2 in)

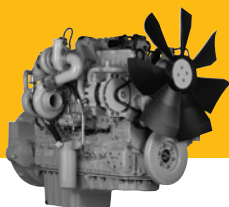
China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
168	225	1800- 2200	186	250	1800- 2200	—	—	—
—	—	—	205	275	1800- 2200	—	—	—

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C7.1

ENGINE



Specifications

**China Stage II,
U.S. EPA Tier 2 Equivalent
EU Stage II Equivalent**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.01 liters (427.7 in ³)
Ship Weight	506 kg (1115 lbs)

Approximate Dimensions:

Length	929 mm (35.5 in)
Width	668 mm (26.2 in)
Height	797 mm (31.4 in)

China Stage II, U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings

TA	C Rating (Intermittent)		
	bkW	bhp	rpm
	105	140	2200
	112	150	1950
	129	172	2200
	137	183	2200
	145	194	2200
	162	220	2200

Emission standards: China Stage II, U.S. EPA Tier 2 equivalent, EU Stage II equivalent

C7.1 ACERT

ENGINE



Specifications

**China Stage II,
U.S. EPA Tier 3 Equivalent
EU Stage IIIA Equivalent**

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.01 liters (427.7 in ³)
Ship Weight	524 kg (1155 lbs)

Approximate Dimensions:

Length	929 mm (36.5 in)
Width	725 mm (28.5 in)
Height	835 mm (32.87 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

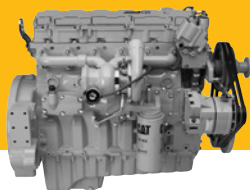
TA	C Rating (Intermittent)		
	bkW	bhp	rpm
	116	156	2200
	129	173	2200
	130	174	2500
	151	202	2200
	159	215	2200
	162	217	2200
	168	225	2200
	186	250	2200
	205	275	2200

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent.
In production October, 2013.

Available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas.

C9 ACERT

ENGINE



Specifications

China Stage II, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	112 x 149 mm (4.41 x 5.87 in)
Displacement	8.8 liters (537 in ³)
Ship Weight	864 kg (1905 lbs)

Approximate Dimensions:

Length	1091 mm (43 in)
Width	827 mm (32.6 in)
Height	1023 mm (40.3 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)											
205	275	1800-2200	223	300	1800-2200	242	325	1800-2200	280	375	1800-2200
—	—	—	—	—	—	261	350	1800-2200	—	—	—

China Stage II, U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings

A Rating (Continuous)			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)					
223	300	1800-2200	261	350	1800-2200

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C9 ACERT

POWER UNIT

Specifications

China Stage II, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	112 x 149 mm (4.41 x 5.87 in)
Displacement	8.8 liters (537 in ³)
Ship Weight	1490 kg (3285 lbs)

Approximate Dimensions:

Length	2174.4 mm (85.81 in)
Width	987.8 mm (38.89 in)
Height	2008.1 mm (79.06 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	205	275	1800-2200	223	300	1800-2200	242	325	1800-2200
—	—	—	—	—	—	261	350	1800-2200	

China Stage II, U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
223	300	1800-2200	261	350	1800-2200	

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C11 ACERT

ENGINE



Specifications

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 140 mm (5.12 x 5.51 in)
Displacement	11.1 liters (677 in ³)
Ship Weight	930 kg (2050 lbs)

Approximate Dimensions:

Length	1203 mm (47.4 in)
Width	1054 mm (41.5 in)
Height	1186 mm (46.7 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating			E Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)														
242	325	1800-	261	350	1800-	287	385	1800-	313	420	1800-	336	450	1800-
		2100			2100			2100			2100			2100

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
 Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C11 ACERT

POWER UNIT

Specifications

	China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 140 mm (5.12 x 5.51 in)
Displacement	11.1 liters (677 in ³)
Ship Weight	1692 kg (3730 lbs)
Approximate Dimensions (engine only):	
Length	1203 mm (47.4 in)
Width	1054 mm (41.5 in)
Height	1186 mm (46.7 in)

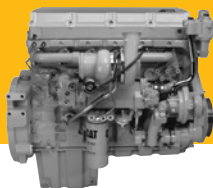
China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	242	325	1800- 2100	261	350	1800- 2100	287	385	1800- 2100

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C13 ACERT

ENGINE



Specifications

China Stage II, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (763 in ³)
Ship Weight	908.4 kg (2002.7 lbs)

Approximate Dimensions:

Length	1295 mm (50.98 in)
Width	1186 mm (46.69 in)
Height	1053.8 mm (41.49 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)			D Rating			E Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)														
287	385	1800-2100	310	415	1800-2100	328	440	1800-2100	354	475	1800-2100	388	520	1800-2100

China Stage II, U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings

TA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
	310	415	1800-2100	328	440	1800-2100

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C13 ACERT

POWER UNIT

Specifications

	China Stage II, U.S. EPA Tier 3 Equivalent or U.S. EPA Tier 2 Equivalent, EU Stage IIIA Equivalent or EU Stage II Equivalent
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	130 x 157 mm (5.1 x 6.2 in)
Displacement	12.5 liters (763 in ³)
Ship Weight	1692 kg (3730 lbs)
Approximate Dimensions:	
Length	1295 mm (50.98 in)
Width	1186 mm (46.69 in)
Height	1053.8 mm (41.49 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	287	385	1800-2100	310	415	1800-2100	328	440	1800-2100

China Stage II, U.S. EPA Tier 2 Equivalent, EU Stage II Equivalent Ratings

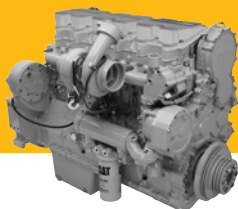
TA (ATAAC)	B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
310	415	1800-2100	328	440	1800-2100	

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent

Available for other regulated and non-regulated areas. U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent also available using EPA (U.S.) Flexibility and EU Flexibility.

C15 ACERT

ENGINE



Specifications

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 171.4 mm (5.4 x 6.75 in)
Displacement	15.2 liters (927.56 in ³)
Ship Weight	1469 kg (3239 lbs)

Approximate Dimensions:

Length	1377 mm (54.2 in)
Width	926 mm (36.5 in)
Height	1226 mm (48.3 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

A Rating (Continuous)	B Rating			C Rating (Intermittent)			D Rating			E Rating		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
328 440 1800-2100	354	475	1800-2100	403	540	1800-2100	433	580	1800-2100	444	595	1800-2100

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C15 ACERT

POWER UNIT

Specifications

	China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 171.4 mm (5.4 x 6.75 in)
Displacement	15.2 liters (927.56 in ³)
Ship Weight	2055 kg (4531.5 lbs)
Approximate Dimensions:	
Length	2447.7 mm (96.4 in)
Width	1316.6 mm (51.8 in)
Height	2629.5 mm (103.5 in)

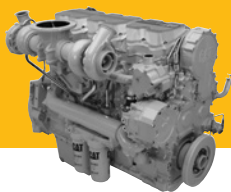
China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	328	440	1800- 2100	354	475	1800- 2100	403	540	1800- 2100

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent
Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

C18 ACERT

ENGINE



Specifications

China Stage II, U.S. EPA Tier 3 Equivalent, EPA Tier 2 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	1673 kg (3688 lbs)

Approximate Dimensions:

Length	1388 mm (54.6 in) (TA)
	1414.1 mm (55.7 in) (TTA)
Width	921 mm (36.3 in) (TA)
	974.0 mm (38.3 in) (TTA)
Height	1243 mm (48.9 in) (TA)
	1257 mm (49.5 in) (TTA)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

U.S. EPA Tier 2 Equivalent Ratings

TTA (ATAAC)	D Rating			E Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	571	765	1800-2100	597	800	1800-2100

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent, or Non-certified

Ratings below 560 bkW (751 bhp) available using EPA (U.S.) Flexibility and EU Flexibility, and for other global regulated and non-regulated areas. Ratings above 560 bkW (751 bhp) available using EPA (U.S.) Flexibility and for other global regulated and non-regulated areas.

Non-certified Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100
TTA (ATAAC)	—	—	—	—	—	—	522	700	1800-2100

C18 ACERT

POWER UNIT

Specifications

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	2197.1 kg (4843.7 lbs)

Approximate Dimensions (engine only):

Length	1388 mm (54.6 in)
Width	921 mm (36.3 in)
Height	1243 mm (48.9 in)

China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent Ratings

TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100

Non-certified Ratings

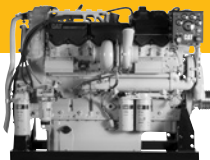
TA (ATAAC)	A Rating (Continuous)			B Rating			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
	429	575	1800-2100	447.5	600	1800-2100	470	630	1800-2100

Emission standards: China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent, or Non-certified

Ratings below 560 bkW (751 bhp) available using EPA (U.S.) Flexibility and EU Flexibility, and for other global regulated and non-regulated areas.

C27 ACERT | C32 ACERT

ENGINES



C32 ACERT

Specifications

	C27 ACERT U.S. EPA Tier 2 Equivalent	C32 ACERT U.S. EPA Tier 2 Equivalent
Engine Configuration . . .	V-12, Diesel	V-12, Diesel
Bore x Stroke	137.2x152.4 mm (5.4x6.0 in) . . .	145.0x162 mm (5.71x6.38 in)
Displacement	27 liters (1648 in ³)	32.1 liters (1959 in ³)
Ship Weight	2946 kg (6495 lbs)	2946 kg (6495 lbs)
Approximate Dimensions:		
Length	1917 mm (75.5 in)	1917 mm (75.5 in)
Width	1464 mm (57.6 in)	1479 mm (58.2 in)
Height	1319 mm (51.9 in)	1319 mm (51.9 in)

C27 ACERT U.S. EPA Tier 2 Equivalent Ratings

A Rating (Continuous)			B Rating			C Rating* (Intermittent)			D Rating			E Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)														
597	800	1800-	653	875	1800-	708	950	1800-	783	1050	1800-	858	1150	1800-
		2100			2100			2100			2100			2100

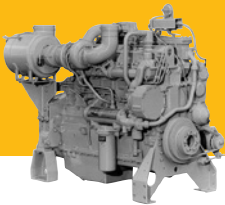
C32 ACERT U.S. EPA Tier 2 Equivalent Ratings

A Rating			B Rating			C Rating (Intermittent)			D Rating			E Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)														
—	—	—	708	950	1800-	839	1125	1800-	895	1200	1800-	1007	1350	1800-
					2100			2100			2100			2100

Emission standards: U.S. EPA Tier 2 equivalent

Available using EPA (U.S.) Flexibility, and for other global regulated and non-regulated areas.

*Available in rear turbo configuration. Dimensions will vary.



3406C

ENGINE

Specifications

	Non-certified
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 165.1 mm (5.4 x 6.5 in)
Displacement	14.6 liters (893 in ³)
Ship Weight	1300 kg (2866 lbs)

Approximate Dimensions:

Length	1660 mm (65.35 in)
Width	906 mm (35.67 in)
Height	1335 mm (52.56 in)

Non-certified Ratings

TA	C Rating (Intermittent)			D Rating		
	bkW	bhp	rpm	bkW	bhp	rpm
	298	400	1800	347	465	1800
	343	460	2100	—	—	—

Emission standards: Non-certified; Available for global non-regulated areas

3406C

POWER UNIT

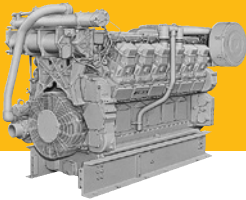
Specifications

	Non-certified
Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	137.2 x 165.1 mm (5.4 x 6.5 in)
Displacement	14.6 liters (893 in ³)
Ship Weight	1300 kg (2866 lbs) (engine only)
Approximate Dimensions (engine only):	
Length	1660 mm (65.35 in)
Width	906 mm (35.67 in)
Height	1335 mm (52.56 in)

Non-certified Ratings

Irrigation Rating			C Rating (Intermittent)			D Rating		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA								
269	361	1800	328	440	2000	347	465	1800
306.5	411	1800	343	460	2100	—	—	—

Emission standards: Non-certified; Available for global non-regulated areas



3512

3500 ENGINES

Specifications

	3508	3512
Engine Configuration . . .	V8, Diesel	V-12, Diesel
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in) . . .	170 x 190 mm (6.7 x 7.5 in)
Displacement	34.5 liters (2105 in ³)	51.8 liters (3158 in ³)
Ship Weight	4309 kg (9500 lbs)	6078 kg (13 400 lbs)
Approximate Dimensions:		
Length	2136 mm (84 in)	2676 mm (105 in)
Width	1703 mm (67 in)	1703 mm (67 in)
Height	1720 mm (68 in)	1720 mm (68 in)

	3516
Engine Configuration . . .	V-16, Diesel
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)
Displacement	69 liters (4210 in ³)
Ship Weight	7484 kg (16 499 lbs)
Approximate Dimensions:	
Length	3366 mm (133 in)
Width	1703 mm (67 in)
Height	1720 mm (68 in)

3508 Ratings

	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	<hr/>					
	507	680	1200	612	820	1300
	578	775	1800	634	850	1800
	638	855	1800	746	1000	1800

3512 Ratings

	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	<hr/>					
	761	1020	1200	858	1150	1300
	955	1280	1800	1119	1500	1800

3516 Ratings

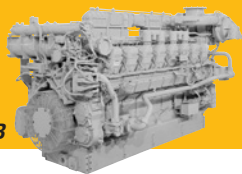
	A Rating (Continuous)			C Rating (Intermittent)		
	bkW	bhp	rpm	bkW	bhp	rpm
TA	<hr/>					
	1011	1355	1200	1242	1665	1300
	1275	1710	1800	1492	2000	1800

Emission standards: Non-certified; Available for global non-regulated areas

3500B | 3500C

ENGINES

3516B



Specifications

	3508B	3512B
Engine Configuration...	V8, Diesel	V-12, Diesel
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in.)	170 x 190 mm (6.7 x 7.5 in.)
Displacement	34.5 liters (2105 in ³)	51.8 liters (3158 in ³)
Ship Weight	4309 kg (9500 lbs)	6078 kg (13 400 lbs)

Approximate Dimensions:

	3508B	3512B
Length	2462 mm (97 in.)	3067 mm (120.8 in.)
Width	1703 mm (67 in.)	1785 mm (70.3 in.)
Height	1720 mm (68 in.)	1806 mm (71.1 in.)

3512C U.S. EPA Tier 2 Equivalent

	3512C U.S. EPA Tier 2 Equivalent	3516B
Engine Configuration...	V-12, Diesel	V-16, Diesel
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in.)	170 x 190 mm (6.7 x 7.5 in.)
Displacement	51.8 liters (3158 in ³)	69 liters (4210 in ³)
Ship Weight	6078 kg (13 400 lbs)	7484 kg (16 500 lbs)

Approximate Dimensions:

	3512C U.S. EPA Tier 2 Equivalent	3516B
Length	3067 mm (120.8 in.)	3008 mm (119 in.)
Width	1785 mm (70.3 in.)	1443 mm (57 in.)
Height	1806 mm (71.1 in.)	1980 mm (78 in.)

Mobile Equipment Ratings

3508B Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
746	1000	1800	783	1050	1800	820	1100	1800

3512B Ratings

A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (ATAAC)								
1119	1500	1800	1174	1575	1800	1231	1650	1800

3516B Ratings

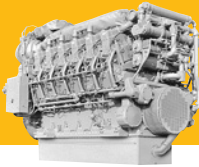
A Rating (Continuous)			B Rating			C Rating (Intermittent)		
bkW	bhp	rpm	bkW	bhp	rpm	bkW	bhp	rpm
TA (SCAC)								
1492	2000	1800	1566	2100	1800	1640	2200	1800

3512C U.S. EPA Tier 2 Equivalent Ratings

A Rating (Continuous)		
bkW	bhp	rpm
TA (ATAAC)		
1120	1500	1800

Emission standards:
U.S. EPA Tier 2 equivalent or Non-certified.

U.S. EPA Tier 2 ratings available using EPA (U.S.) Flexibility, and for other regulated and non-regulated areas. Non-certified ratings available for non-regulated areas.



3612

3600 ENGINES

Specifications

	3606	3608
Engine Configuration ...	In-Line 6, Diesel.....	In-Line 8, Diesel
Bore x Stroke	280 x 300 mm (11 x 11.8 in) ...	280 x 300 mm (11 x 11.8 in)
Displacement	110.8 liters (6764 in ³)	147.8 liters (9018 in ³)
Ship Weight	15 680 kg (34 500 lbs)	19 000 kg (41 800 lbs)
Approximate Dimensions:		
Length	3988 mm (157 in)	4828 mm (190 in)
Width	1748 mm (69 in)	1748 mm (69 in)
Height	2626 mm (103 in)	2626 mm (103 in)

	3612	3616
Engine Configuration ...	V-12, Diesel.....	V-16, Diesel
Bore x Stroke	280 x 300 mm (11 x 11.8 in) ...	280 x 300 mm (11 x 11.8 in)
Displacement	221.7 liters (13 527 in ³)	295.6 liters (18 036 in ³)
Ship Weight	25 140 kg (55 300 lbs)	29 950 kg (65 900 lbs)
Approximate Dimensions:		
Length	4562 mm (180 in)	5482 mm (216 in)
Width	1704 mm (67 in)	1704 mm (67 in)
Height	3231 mm (127 in)	3231 mm (127 in)

3606 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	1490	1998	750
	1560	2092	800
	1730	2319	900
	1850	2481	1000

3612 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	2980	3996	750
	3120	4184	800
	3460	4640	900
	3700	4962	1000

3608 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	2080	2787	800
	2300	3080	900
	2460	3300	1000

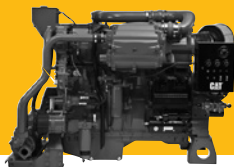
3616 Ratings

TA	Distillate A Rating (Continuous)		
	bkW	bhp	rpm
	4160	5579	800
	4600	6169	900
	4920	6598	1000

Emission standards: Non-certified; Available for global non-regulated areas

Fire Pump

ENGINES



Specifications

C18 ACERT

Engine Configuration . . .	In-Line 6, Diesel
Bore x Stroke	145 x 183 mm (5.71 x 7.2 in)
Displacement	18.1 liters (1104.53 in ³)
Ship Weight	1953 kg (4306 lbs)

Approximate Dimensions:

Length	1889 mm (74.4 in)
Width	1081.7 mm (42.6 in)
Height	1379.6 mm (54.3 in)

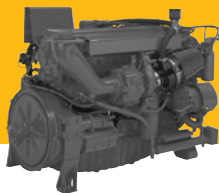
C18 ACERT Fire Pump Ratings FM Approved, UL Listed

1500 rpm		1750 rpm		1900 rpm		2100 rpm	
bkW	bhp	bkW	bhp	bkW	bhp	bkW	bhp
Tier 2							
—	—	597	800	597	800	597	800
Tier 3							
—	—	522	700	522	700	522	700
—	—	447	600	447	600	447	600
Non-certified							
522	700	—	—	—	—	—	—

Emission standards: U.S. EPA Tier 3 or U.S. EPA Tier 2 for stationary emergency fire pump engines, or Non-certified. FM, UL, and NFPA standards.

Ratings below 560 bkW (751 bhp) conform with current EPA (U.S.) Tier 3 emission standards for stationary emergency fire pump engines. Ratings above 560 bkW (751 bhp) conform with current EPA (U.S.) Tier 2 emission standards for stationary emergency fire pump engines.

Fire Pump ENGINES



3406C Ratings FM Approved, UL Listed In-Line 6

1750 rpm		2100 rpm		2300 rpm	
bkW	bhp	bkW	bhp	bkW	bhp
218*	292*	321*	430*	339	455
276	370	359	482	—	—
313*	420*	—	—	—	—
343	460	—	—	—	—

*3406C wet manifolds

Additional 3406C ratings with radiators are available, but not FM approved or UL listed.

3412C Ratings FM Approved, UL Listed V-12

1750 rpm		1900 rpm		2100 rpm	
bkW	bhp	bkW	bhp	bkW	bhp
476*	638*	551*	739*	551	739*

*3412C wet manifolds

3508 Ratings Not FM Approved, Not UL Listed V-8

1460 rpm		1750 rpm	
bkW	bhp	bkW	bhp
709	950	794	1065

3512 Ratings Not FM Approved, Not UL Listed V-12

1460 rpm		1750 rpm	
bkW	bhp	bkW	bhp
1066	1430	1193	1600

3516 Ratings Not FM Approved, Not UL Listed V-16

1460 rpm		1750 rpm	
bkW	bhp	bkW	bhp
1417	1900	1480	1985

Emission standards: Non-certified. Available for global non-regulated areas. FM, UL, and NFPA standards

Label and NSPS Regulations

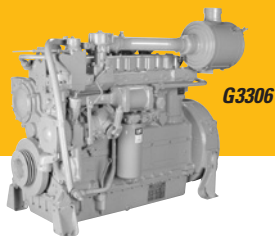
Label and NSPS Regulations for Gas Engines

Stationary Use Only Label

- Effective January 2004, the U.S. EPA Non-road Mobile SI rule restricts the use of SI gas engines within the United States. Cat gas engines are not certified for mobile applications within the U.S. and are to be used in stationary use only applications. All gas engines will have this label attached regardless of the dealer placing the order.

U.S. EPA SI Stationary NSPS Rule (40CFR60)

- The rule applies to newly built engines.
- This standard regulates NO_x, CO, and VOC in the United States for spark ignited natural gas engines. It is the customer's responsibility to coordinate and complete site emissions testing and submit for a U.S. EPA certificate of compliance.
- Effective July 1, 2010, the U.S. EPA will enforce "Stage 2" of the new Spark Ignited New Source Performance Standard (SI NSPS) for stationary engines rated equal to or above 500 bhp. Effective January 1, 2011, this standard will be required for engines rated below 500 hp.



G3306

G3300

GAS ENGINES

Specifications

	G3304 (TA)	G3306 (T)
Bore x Stroke	121 x 152 mm (4.75 x 6.0 in)	121 x 152 mm (4.75 x 6.0 in)
Displacement	7.0 liters (425 in ³)	10.5 liters (638 in ³)
Ship Weight	757 kg (1670 lbs)	948 kg (2090 lbs)
Approximate Dimensions:		
Length	1158 mm (46 in)	1539 mm (60 in)
Width	744 mm (29 in)	978 mm (38 in)
Height	1170 mm (46 in)	1261 mm (50 in)

G3304 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3304 NA ³	71	95

G3306 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3306 NA ^{4,5}	108	145
G3306 T ^{4,5}	112	150
G3306 TA ^{2,4,5}	151	203
G3306 TA ^{1,4,5}	164	220
G3306B NA ³	108	145
G3306B TA ^{2,3}	151	203
G3306B TAA ^{2,3}	157	211

¹32°C/90°F water to aftercooler

²54°C/130°F water to aftercooler

³With Caterpillar or customer-supplied air fuel ratio control and aftertreatment.

⁴With customer-supplied air fuel ratio control and aftertreatment.

⁵Ag Irrigation Ratings

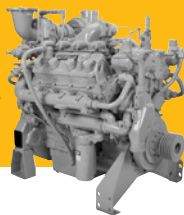
Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. Some ratings also have standard emission settings available for export only. For specific emission information please refer to engine spec sheet.

G3400

GAS ENGINES

G3408



Specifications

	G3406 (TA)	G3408C LE	G3412C LE
Bore x Stroke	137 x 165 mm (5.4 x 6.5 in)	137 x 152 mm (5.4 x 6.0 in)	137 x 152 mm (5.4 x 6.0 in)
Displacement	14 liters (893 in ³)	18 liters (1099 in ³)	27 liters (1649 in ³)
Ship Weight	1362 kg (3000 lbs)	2245 kg (4950 lbs)	2141 kg (4720 lbs)
Approximate Dimensions:			
Length	1934 mm (76 in)	1756 mm (69.1 in)	2442 mm (96 in)
Width	1270 mm (50 in)	1563 mm (61.5 in)	1598 mm (63 in)
Height	1433 mm (56 in)	1758 mm (69.2 in)	1960 mm (77 in)

G3406 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3406 NA ²	160	215
G3406 TA ^{1,2}	206	276
G3406 TA ^{1,3}	242	325

G3408 Ratings

Engine — Continuous	1500 rpm		1800 rpm	
	bkW	bhp	bkW	bhp
G3408 NA ²	—	—	190	255
G3408 TA ^{1,2}	249	332	—	—
G3408 TA ^{1,3}	—	—	298	400
G3408C LE ¹	—	—	317	425

G3412 Ratings

Engine — Continuous	1800 rpm	
	bkW	bhp
G3412 TA ^{1,3}	448	600
G3412C LE ¹	475	637

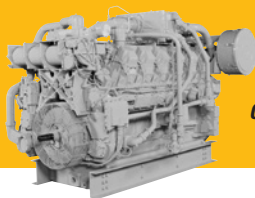
¹54°C/130°F Water to Aftercooler

²With customer-supplied air fuel ratio control and aftertreatment

³Rating for export only. Not NSPS site compliant capable.

Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. Some ratings also have standard emission settings available for export only. For specific emission information please refer to engine spec sheet.



G3512

G3500

GAS ENGINES

Specifications

	G3508B LE	G3512B LE
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
Displacement	34.5 liters (2105 in ³)	51.8 liters (3158 in ³)
Ship Weight	3941 kg (8688 lbs)	4950 kg (10,913 lbs)
Approximate Dimensions:		
Length	2522 mm (99 in)	3023 mm (119 in)
Width	2014 mm (79 in)	2220 mm (87.4 in)
Height	2131 mm (84 in)	2136 mm (84.1 in)

	G3516B LE	G3520B LE
Bore x Stroke	170 x 190 mm (6.7 x 7.5 in)	170 x 190 mm (6.7 x 7.5 in)
Displacement	69.0 liters (4211 in ³)	86.3 liters (5263 in ³)
Ship Weight	8401 kg (18,520 lbs)	11 168 kg (24,622 lbs)
Approximate Dimensions:		
Length	3400 mm (133 in)	4180 mm (164 in)
Width	1844 mm (73 in)	1755 mm (69 in)
Height	2286 mm (90 in)	2385 mm (94 in)

G3508 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3508 TA ^{1,2}	391	524	—	—
G3508 LE ¹	—	—	500	670
G3508B LE ¹	—	—	514	690

G3516 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3516 NA ^{2,3}	492	660	—	—
G3516 TA ^{1,2}	783	1050	—	—
G3516 LE ¹	858	1150	1000	1340
G3516B LE ¹	—	—	1029	1380

G3512 Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3512 TA ^{1,2}	589	790	—	—
G3512 LE ¹	642	860	749	1004
G3512B LE ¹	—	—	772	1035

G3520B Ratings

Engine — Continuous	1200 rpm		1400 rpm	
	bkW	bhp	bkW	bhp
G3520B LE ¹	1104	1480	1286	1725

¹54°C/130°F Water to Aftercooler

²With customer-supplied air fuel ratio control and aftertreatment

³Rating for export only. Not NSPS site compliant capable.

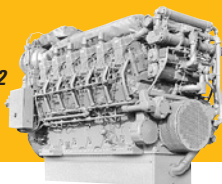
Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. For specific emission information please refer to engine spec sheet.

G3600

GAS ENGINES

G3612



Specifications

	G3606 (TA)	G3608 (TA)
Bore x Stroke	300 x 300 mm (11.8 x 11.8 in)	300 x 300 mm (11.8 x 11.8 in)
Displacement	127.2 liters (37 762 in ³)	169.6 liters (10 350 in ³)
Ship Weight	15 640 kg (34 560 lbs)	19 000 kg (41 888 lbs)
Approximate Dimensions:		
Length	4638 mm (183 in)	5465 mm (215 in)
Width	1744 mm (69 in)	1868 mm (74 in)
Height	2921 mm (115 in)	2922 mm (115 in)

	G3612 (TA)	G3616 (TA)
Bore x Stroke	300 x 300 mm (11.8 x 11.8 in)	300 x 300 mm (11.8 x 11.8 in)
Displacement	254.4 liters (15 528 in ³)	339.2 liters (20 698 in ³)
Ship Weight	25 084 kg (55 300 lbs)	29 892 kg (65 900 lbs)
Approximate Dimensions:		
Length	4735 mm (186 in)	5661 mm (223 in)
Width	2380 mm (94 in)	2380 mm (94 in)
Height	3220 mm (127 in)	3208 mm (126 in)

G3606 Ratings

Engine — Continuous	1000 rpm	
	bkW	bhp
G3606 LE ³	1324	1775
G3606 LE ²	1368	1835
G3606 LE ¹	1413	1895

G3612 Ratings

Engine — Continuous	1000 rpm	
	bkW	bhp
G3612 LE ³	2647	3550
G3612 LE ²	2733	3665
G3612 LE ¹	2822	3785

G12CM34 Ratings

Engine — Continuous	750 rpm	
	bkW	bhp
G12CM34	4575	6135
G12CM34	6100	8180

¹32°C/90°F Water to Aftercooler
²43°C/110°F Water to Aftercooler
³54°C/130°F Water to Aftercooler

G3608 Ratings

Engine — Continuous	1000 rpm	
	bkW	bhp
G3608 LE ³	1767	2370
G3608 LE ²	1823	2445
G3608 LE ¹	1879	2520

G3616 Ratings

Engine — Continuous	1000 rpm	
	bkW	bhp
G3616 LE ³	3531	4735
G3616 LE ²	3647	4890
G3616 LE ¹	3762	5045

Ratings listed are for 25°C (77°F) ambient temperature, 500 ft. altitude, and pipeline quality gas.

Emission standards: Ratings are NSPS site compliant capable with customer-supplied aftertreatment. For specific emission information please refer to engine spec sheet.

ADEM™ A4 ECU

- Electronic engine control unit
- Precise fuel control
- Smarter controller
- Password protected
- Customized engine speed
- Controls idle levels
- Precise injection timing



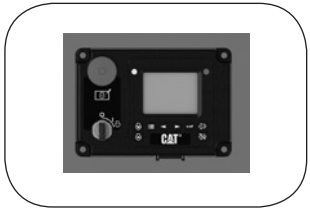
Cat Messenger

- Electronic display unit
- Full graphic LCD screen
- Engine status and diagnostic display in one
- Four easy scroll buttons
- Monitors engine problems
- Alerts driver of corrective action
- Schedules engine for service
- Provides diagnostic information, SAE standard codes, and brief text explanation



Base Tier 4 Engine Control Panel

- Compact engine panel
- Clear LCD display
- Cat keyswitch
- Regeneration and throttle controls
- Stop button
- Warning/fault lamps and codes displayed



Technology

Electronic Control Unit (ECU)

- Electronic engine control unit
- Precise fuel control
- Smarter controller
- Password protected
- Customized engine speed
- Controls idle levels
- Precise injection timing



Analog Gauge

- 12V and 24V systems
- Liquid Crystal Display: engine hours/ diagnostic codes
- 2 LED indicators
- 2- or 3-inch diameter dial
- Thread nut mount installed
- Integral 6-pin Deutsch connector
- Displays engine speed, fuel rate, load percent, pressures, and temperatures



Control and Display Panels Engine Monitoring System Display

- Parameters from engine
- Audible alarm, diagnostic windows
- SAE standard icons
- -40°C to +85°C



Mini Industrial Panel Display (MIPD)

- 15 user-defined screens
- Max 10 parameters per screen
- 8 displays on same J1939 network
- Multiple language compatibility
- Multiple custom screen options

For additional information visit www.catelectronics.com

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Materials and specifications are subject to change without notice. Rating ranges listed include the lowest and highest available for a specific engine or family of engines. Load factor and time at rated load and speed will determine the best engine/rating match.

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