



**Asia-Pacific  
Economic Cooperation**

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**2012/CTI2/MAG/WKSP/005**

## **Cummins Remanufacturing**

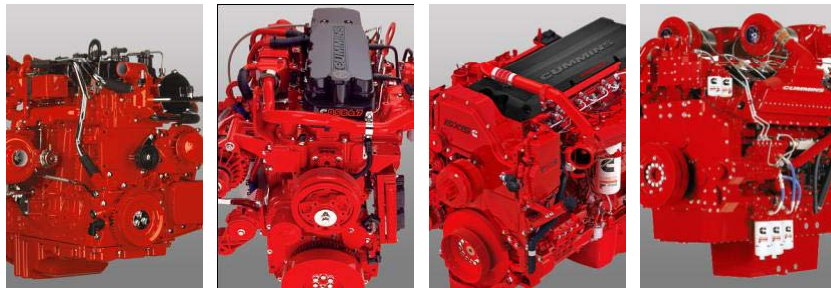
Submitted by: Cummins



**Workshop on Remanufacturing Research  
and Development in APEC Economies  
Singapore  
28 March 2012**



## Cummins Remanufacturing



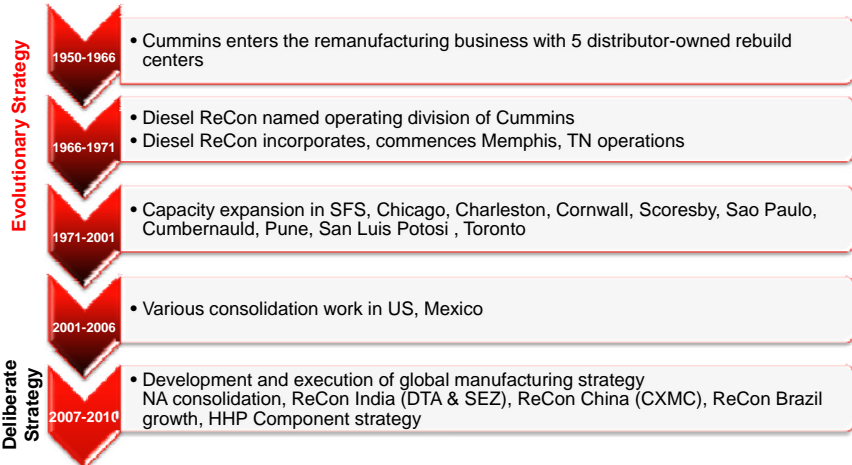
## Brian Kuznicki

### Cummins Remanufacturing New Business Development Director

- 14 years with Cummins, mostly in MidRange engineering
- Undergraduate in Automotive and Heavy Equipment Management with minor in Engine Machining/Rebuilding
- Masters in Business Administration



## Overview/Background Cummins ReCon History

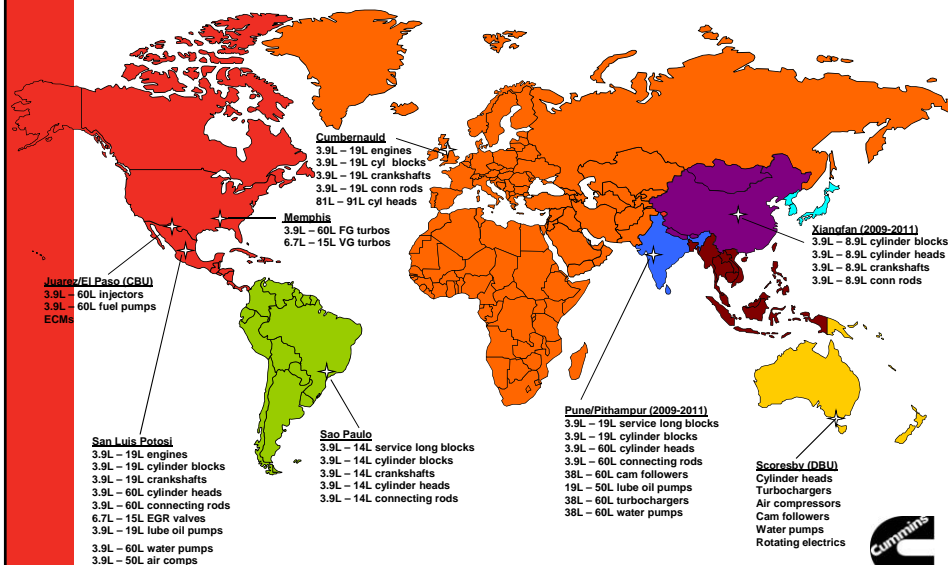


- ReCon® is the brand name which identifies Cummins Genuine factory-remanufactured products



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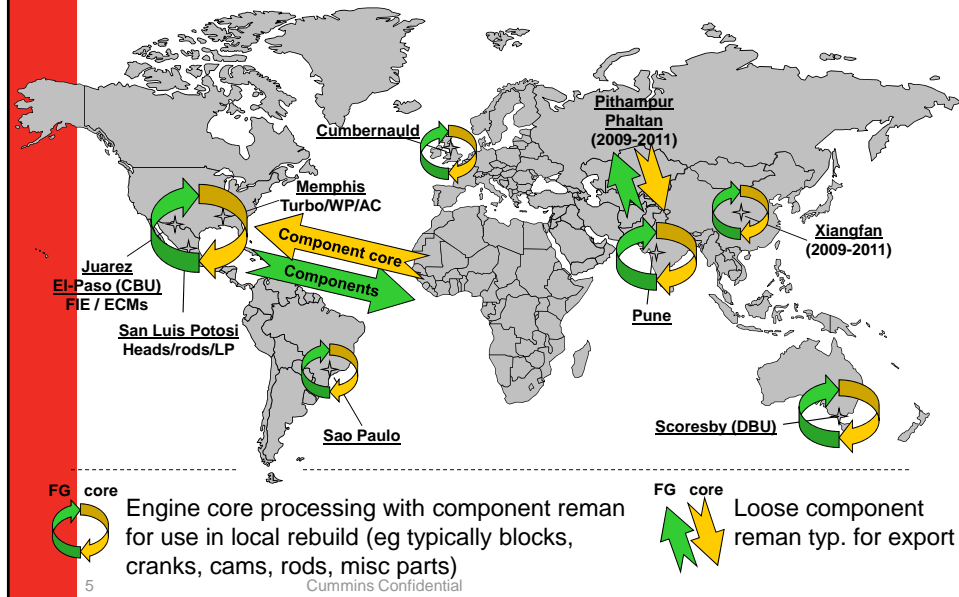
## Remanufacturing Locations



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## Remanufacturing Logistics



## Design for Reman

- Much more than just engineering
  - Purchasing – access to make up components
  - Finance – ability to reman and still make profit
  - Marketing – ability to attract the market

| Component         | OE Proposal               | Design for Reman  | Solution  |
|-------------------|---------------------------|---|---|
| Cylinder Block    | One time machining        | Ability to re-machine at least one time – maybe more OR utilize metal addition for “back to standard” condition | DVA to ensure component is functional after machining         |
| Urea Doser Module | Glue-on / weld-on lid     | Inexpensive means to access internal components   | O-ring seal with tamper resistant capscrews                   |
| Cylinder Head     | Parent metal valve guides | Oversize valve stems/guides result in non-standard field condition  | Adequate material for <i>conversion</i> to replaceable guides |

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Thank You

