



IPD TECH BULLETIN

**3508 / 3512 / 3516 engine changes
and updates**

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3500 series Caterpillar® engines have been in the market since the 1980's and have evolved and changed significantly. This series of engines fall into various models that each included their own updates, those models are:

3500A / 3500B / 3500C

One of the most significant changes in the diesel applications was in the method of fuel delivery systems from:

Mechanical Unit Injection (MUI) to Electronic Unit Injection (EUI)

There have also been major changes in the stroke and of course the piston design:

Aluminum - Two-piece Articulated - One-Piece Steel

In addition, you must consider changes within other components including:

- **Electronics**
- **Gear train**
- **Valve, side and cam covers**
- **Water pumps**
- **Valve & injector lifters**
- **Cylinder liners & spacer plates**
- **Turbochargers**
- **Numerous seals & gaskets**
- **Crankshafts**
- **Camshafts**
- **Manifolds**
- **Numerous valve train components**
- **Cylinder Heads**

Making sure the components are compatible when making repairs can be critical. Something as simple as mismatched valve springs can result in catastrophic failures.

Continued...

The O.E. manufacturer has had several product improvement, support programs, as well as Technical bulletins over the years, for example:

- Combustion leakage on cylinder head gaskets (REBE4209)
- Machining errors on cylinder liners (SEBE7666)
- Blockages in coolant passages of cylinder heads (TIBU2995)
- Delaminating of some connecting rod bearings (TIBU5789)

Keeping parts and service information current and dealing with knowledgeable and reputable suppliers is important to your success when working with 3500 and other series engines.

The updates, issues and publications mentioned above are for reference only to illustrate the many and significant changes these engines have gone through over their 20 plus year life span thus far. The intent of this publication is solely to inform the reader of things to consider when ordering, quoting, and/or repairing 3500 series engines. Please contact your OE dealer to gain access to the various bulletins and updates you will need for these engines.

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