

Service Report 12-March-2015

When the unit was brought into the CAT service shop, the location treated the unit as they would any that ran with contaminated oil. The technicians tore the unit down & cleaned all passageways that oil would pass through. During the rebuild of the engine, all parts were inspected and the following replacements/updates were made:

- Replaced generator space heaters as per CAT Service Letter (REBE8458-01/PS43692)
- Updated crankshaft, crankshaft dowels, damper adapter, flywheel and damper as per CAT Service Letter (REBE8258-01/PS43820)
- Update fuel system software as per CAT Service Letter (REBE9803-01/PS43994)
- Engine software updated as per CAT Service Letter (REBE9035-01/PS43788)
- Replaced the connecting rod bearings as per CAT Service Letter (REBE6385-05/PS43141)
- Replaced the oil filter elements as per CAT Improvement Letter (TEBE0861-01/PI10956)
- Honed liners
- Installed new piston rings
- Replaced 9 injectors that did not meet cat reusability guidelines
- Installed new main & rod bearings
- Replaced the engine oil pump
- Replaced turbo cartridges
- Replaced the high pressure fuel pump
- Replaced oil cooler
- Used all new gaskets and seals to replace above components and rebuild the engine

Upon completion of the work, the unit was put on the load test bank and run. Due to the limited capabilities of the load test bank, the technicians were not able to run the unit up to full load – was only able to test start-up and power down; the unit appeared to have no issues.