

IADC Maintenance Committee Meeting

Caterpillar Update

April 10, 2019

Robert Froebel

Oil & Gas

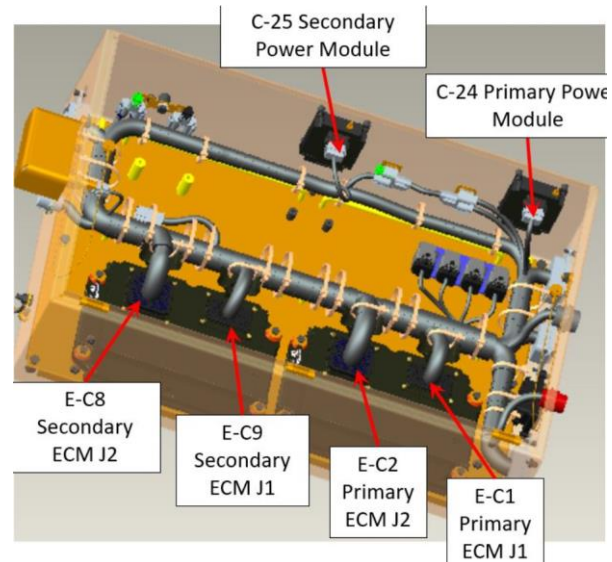
C175 Remove Fuel Valve Power Module

Service Letter PS46140

- Fuel Valve can fail and shut down the engine

Permanent Corrective Action:

- Remove power module, change wiring to power fuel valve directly from ECM power supply



C175 High Pressure Fuel Pump

Issue:

- Some bottom end failures seen with less than 10K hrs

Root Cause:

- Quality Control at Supplier (Already Addressed)
- Materials not robust enough for typical oil contamination and oil lubricity
- Roller and pin fatigue failure

Interim Corrective Action:

- Multiple Improvements in Quality Control Implemented

Permanent Corrective Action:

- Change roller and pin materials

Current Status:

- Field testing with limited population underway

3500 ASO Valve Failures

Permanent Corrective Action:

- New Proximity Sensors – Engine News Published (M0095301-00)
- Strong arm brackets and light weight gate

Timeline for Strong arm brackets and ASO Valve:

- Harvested 11 pairs of field follow hardware
- New design validated
- Parts in procurement
- Publish Engine News / Available at dealers (3Q 2019)

Questions ?

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