

Caterpillar O&H Conference Call 03/26/2015 11:00PM EST

Attendance:

Adam Roig
Vince Caliendo
Gary Hammer
Martin Thompson
Bob Campbell
Jim Gutzwiller
Mark Jarrett
Jim McCord
Bill Larch
Hind Abi-Akar

Agenda Items:

1. 1Y540 Engine Coolant Heat Exchanger Core PN: 7B5946
2. 1Y540 Engine Water Pump PN: 1Y0456
3. 1Y540 Engine Oil Pump PN: 1Y0667

1Y540 Engine Coolant Heat Exchanger Core PN: 7B5946:

Does Modine have a replacement? IAR has bodies, can get core manufactured. SwRI is ok; sent their unit to Modine for testing, balked at high price. Afton is ok; pain to keep them together and not leak. CAT is completely out of cores. Can get more made from supplier in San Antonio.

1Y540 Engine Water Pump PN: 1Y0456:

Should we use a common electric pump or do we leave it up to the lab as long as parameters are met? Consensus seems to be to leave it up to labs with a suggested pump in procedure. CAT to provide info on suggested pump. What about parasitic loss from belt drive? Does not seem to be a great concern amongst group. CAT to run calcs to see how much power gain there would be to evaluate impact.

O&H Panel to recommend electric pump that CAT will recommend along with replacement heat exchanger. These are to be recommended parts with the option for the labs to use current hardware or develop their own new systems to meet specs.

1Y540 Engine Oil Pump PN: 1Y0667:

Parasitic losses from current pump are more than likely significant. New electric pump may change oil shearing. Pumps are from the early 1980's. Issues with governor parts availability.

Can be issues with oil pumps wearing; thrust washers and bushings can wear excessively if misalignment occurs. Need about 15 new pumps for all labs. Use an electric motor that drives the current pump? What will it take for CAT to make parts available again?; for CAT to investigate.

Other Items:

Labs to send any additional parts concerns to Adam
Future meetings to be set up monthly (more frequently if needed)

Next meeting set for April 22, 2015 at 11:00AM EST.

Adjourned at 12:05 EST