

November 5th, 2020

Caterpillar Surveillance Panel Teleconference Minutes

Conference Attendees:

Infineum - Jim Gutzwiller (Chairman), Elisa Santos, David Brass, Charlie Leverett
Caterpillar - Hind Abi-Akar, Mark Jarrett
Intertek - Josh Ward (Secretary), Hung Nguyen, Timothy Griffin, Martin Chadwick
Haltermann - Prasad Tumati
TMC - Sean Moyer
SwRI – Bob Warden, Travis Kostan
Lubrizol – Alex Ebner, Marco Ledjenac
TEI - Dan Lanctot
Chevron – Mark Cooper
Afton – Todd Dvorak
Chevron – Jo Martinez, David Lee
Daimler – Mesfin Belay
CP Chem – John VanScoyoc
Exxon – Riccardo Conti, Ashley Montufar

Agenda Items:

- Update on COAT Matrix (COAT as Replacement for the EOAT)
- CAT Parts Updates
- COAT - Alternate Fuel Supplier Discussion
- COAT - Fresh Oil Stirring

Discussion:

Status of COAT Matrix:

- API has sent out contracts for the COAT matrix testing
 - One lab has signed and returned the contract, two labs still in process
 - One lab has completed one of the two matrix tests
 - One lab delayed due to reference testing and scheduling
 - All tests will need to be completed before data can be analyzed

1M and 1K / 1N Parts:

- CAT is clearing out inventory on some single cylinder engine parts. See list of parts and discounts on following page

PN	Description	Test	Quantity	Discount %
1Y7988	ADAPTER AS-PUMP	1M	37	65
1Y7964	BLOCK-CYLINDER	1M	17	65
1Y3553	BODY AS-PISTON	modified 1M	73	65
1Y7979	CAM-FUEL PUMP	1M	5	65
1Y7956	COVER-ROCKER	1M	22	65
1Y7953	COVER-SHAFT	1M	1	65
1Y7970	COVER-SHAFT R	1M	2	65
1Y0692	CRANKSHAFT	1N/1K	38	80
1Y7985	CRANKSHAFT AS	1M	11	80
1Y7972	ELBOW-EXHAUST	1M	7	65
1Y7957	ENCLOSURE AS	1M	1	65
1Y7963	GUIDE	1M	6	65
1Y0559	HEAD AS-CYLINDER	1N/1K	10	80
1Y7954	HOUSING-ROCKER	1M	2	65
1Y5472	LIFTER AS	1M	43	65
1Y0504	LINE AS-WATER	1M	2	65
1Y7476	PLATE-THRUST	1M	6	65
1Y3552	RING GP-PISTON	modified 1M	33	65
1Y7967	SHAFT-ROCKER	1M	7	65
1Y7968	SPACER	1M	5	65
1Y0005	TUBE-R CAM BRG	1M	2	65
1Y7989	PLATE-STOP	1M	1	65
1Y7964	BLOCK-CYLINDER	1M	1	65

- **C13 Part Numbers Superseded**

- Old Exhaust Valve 224-3030 no longer available, superseded by 248-1467
- Old Intake Valve 224-3028 is still available but will be superseded by 252-7802
- Difference between old and new valves is a new higher temperature material, same fit and function
- The C13 procedure and list on the TMC website will need to be updated to reflect that both part numbers are acceptable to use
- Labs need to ensure part numbers are updated in the test reports to track the part change

COAT - Fresh Oil Stirring

- Tim Griffin sent out draft of proposed stirring procedure
- Draft document will be updated to match ASTM wording on approved equipment / materials

COAT - Alternate Fuel Supplier Discussion:

- Bob Warden sent out a draft of the COAT alternate fuel supplier criteria (see attached document)
 - Discussion over adding criteria for testing to be performed on the same engine build
 - Discussion on wording and LTMS acceptability concerning Ei alarms and requirements
 - Updated document will be sent out for review and E-Balloting
 - Document is attached

Actions:

- Meeting to complete COAT procedure updates needs to be scheduled
- Labs will work with API to complete contracts and begin COAT matrix testing
- Panel members will review the draft COAT alternate fuel supplier criteria document and respond to E-Ballot

Next CAT SP Call Scheduled for 11/24/20 9:00AM to 11:00AM CST