

July 6, 2016

Caterpillar Surveillance Panel  
COAT Task Force Teleconference Minutes

Teleconference Attendees:

Jim Gutzwiller (Chairman), Caroline Laufer – Infineum  
Jim McCord, Jim Carroll (Secretary) – SwRI  
Hind Abi-Akar, Mark Jarrett – CAT  
Jim Matasic, Greg Miranda – Lubrizol  
Sean Moyer – TMC  
Robert Stockwell, Mark Cooper – Chevron Oronite  
Mey Dewey, Tim Griffin – Intertek  
Bob Campbell – Afton  
Jason Bowden - Bowden

Andy Burnet, Ray Landerburg, Mike Hicks, Rich Hall, Tim Patton - Emerson

**AGENDA**

COAT Micro-Motion discussion

Representatives from EMERSON to answer the questions given to them on the last CAT Conference call June 8, 2016.

Emerson provided the attached presentation during the discussion.

Greg Miranda gave a brief background synopsis of the COAT test to Emerson along with the concerns about the differences between density measurements with the old and new Micromotions (MM). He ended it with the question to Emerson: How do we keep technical credibility?

Emerson asked a few technical questions about the conditions in which we operate the COAT test and Micromotion system.

Emerson explained that the RTD in the MM sensor measures the temperature of the tube which is affected by the ratio of the fluid temperature to the ambient temperature. Plus, since we are running at low flow conditions, the time to equilibrate the tube temperature is longer because heat transfer is also slowed.

Emerson stated that using an external temperature measurement (such as the COAT sample temperature) would minimize the heat transfer error.

Emerson stated that they could provide an update to software to allow calibration of the RTD with an offset and slope adjustment.

Emerson was asked to answer the questions the COAT task force had provided for the next conference. The conference ended when Emerson had to leave.

Next conference call was set for July 13 at 9am CDT.