

MURPHY OIL CORP 1-12-64-25-W5M

Customer: PTRHTF20046

QUADRA CHEMICALS 12925 146TH STREET

EDMONTON, AB T5L 2H6 CANADA

Attn: Ada Aponte

Tel:

E-Mail: Ada Aponte@quadra.ca

System Information

System Volume: 20000 ltr

Bulk Operating Temp: 428F / 220C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: PROFIRE/ALCO

Sample Information

Lab No: 02217460 Analyst: Peter Harteveld Sample Date: 05/21/18 Received Date: 05/22/18 Completed: 05/25/18

To discuss this report contact Peter

Harteveld at (780)967-4234

Recommendation: Due to not using the same system ID as previous this analysis had to be moved in order to restore trending of the fluid. Comments have not changed and are: Wear rates are normal, water content is negligible, there is no indication of contamination, the AN is acceptable. The fluid is suitable for further use. Please re-sample in 6 months.

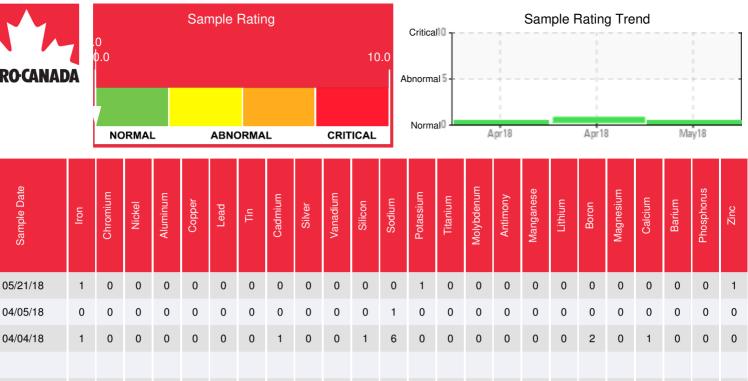
Comments: All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



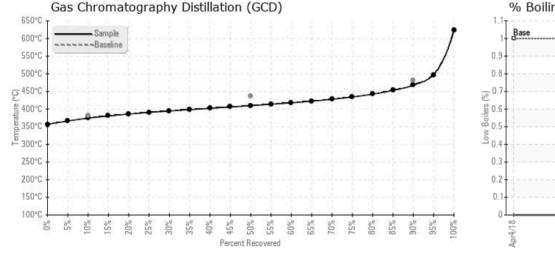
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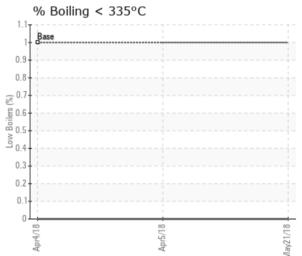


Baseline Data



Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]





Historical Comments

The fluid is in good condition and suitable for use. Water content is low. (67 ppm.)90% GCD temperature is high. This is not a problem for the fluid in service. Customer will be contacted by phone as a follow-up call after the conversation of this morning (May 17). System is non-circulated and will be started today. 04/05/18 (GCD) 90% Distillation Point is abnormally high. Water content is slightly high. Recommended to boil off the water by venting steam to atmosphere. The Fluid is in a good condition and suitable for further use. 04/04/18

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