

[9-13-62-6-W6 / previous sample Calflo/Petrotherm mix] MUSREAU 9-13, V-5200-5

Customer: PTRHTF20149

TOURMALINE OIL

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System Information

System Volume: 34000 ltr

Bulk Operating Temp: 410F / 210C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO LT

Make: ZIRCO 5500

Sample Information

Lab No: 02620379 Analyst: Clinton Buhler Sample Date: 02/10/24 Received Date: 03/06/24 Completed: 03/15/24

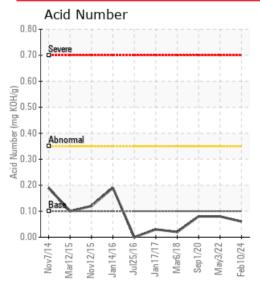
Clinton Buhler

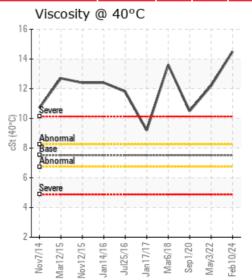
Clinton.Buhler@HFSinclair.com

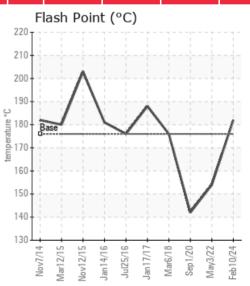
Recommendation: Sample results indicate there is a mixture of Calflo LT and Petro-Therm and that the mixed fluid remains in suitable condition for continued service. Please re-sample in 12 months.

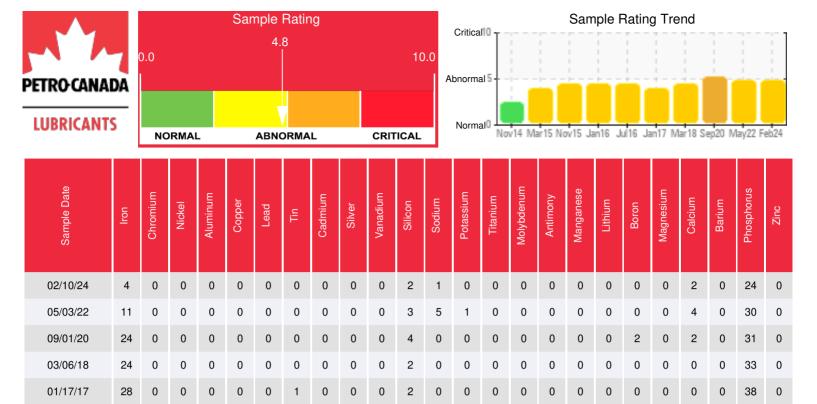
Comments:





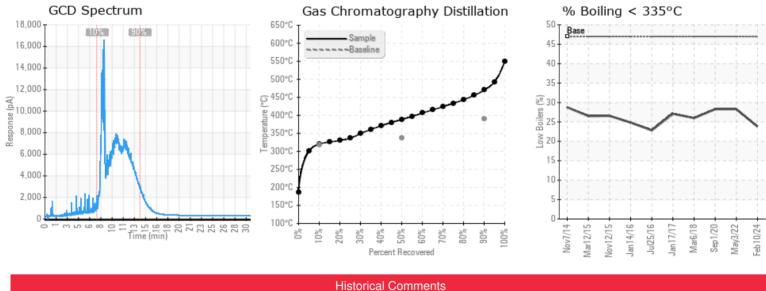






Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

Baseline Data



Sample results indicate that the fluid condition remains similar to the previous analysis' and is understood to be a mix of Calflo LT and Petro-Therm.Please resample in 12 months

Sample results indicate that the fluid is suitable for continued service. The different parameters continue to be fairly consistent to the previous sample results. The fluid's viscosity and 50% and 90% distillation temperatures would seem to indicate a possible mixture of fluids in service. Please re-sample in 12 months

Sample results indicate that the fluid is suitable for continued service. Please note 50% and 90% distillation point is consistently higher than expected as is the fluid's viscosity. This can be an indication of Oxidation, but the fluid's Total Acid Number is very low, so it is more likely that a heavier fluid has been possibly mixed in. Investigate the cause of oil thickening. It is good practice to ensure a blanket gas is applied to the expansion tank and set at 2-3 psi.Re-sample in 12 months. (GCD) 50% Distillation Point is severely high. (GCD) 90% Distillation Point is severely high. Sample has improved slightly since last sampled in July. Resample in 6 months (GCD) 50% Distillation Point is severely high. (GCD) 90% Distillation Point is severely high.

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