

TFS H/O SYSTEM #1

Customer: PTRHTF10176

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System Volume: 4462 gal

Bulk Operating Temp: 553F / 289C

System Information

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: FSE

Sample Information

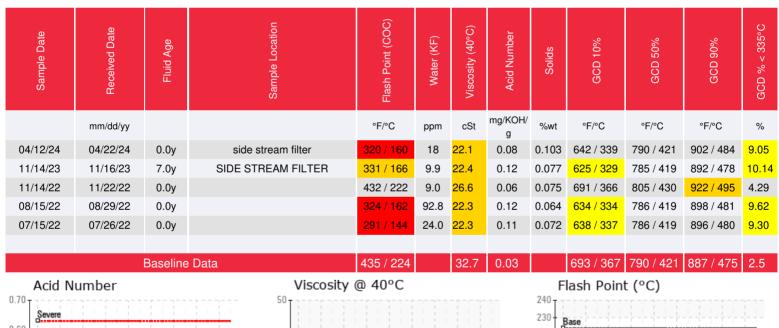
Lab No: 02630811 Analyst: Neil Buchanan Sample Date: 04/12/24 Received Date: 04/22/24 Completed: 04/25/24

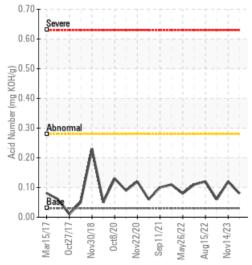
Neil Buchanan

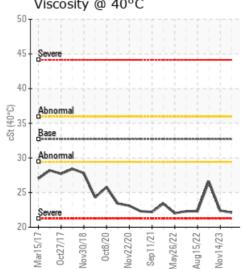
neil.buchanan@HFSinclair.com

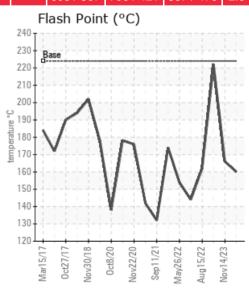
Recommendation: Flash point is severely low and GCD shows the formation of light ends. Consider safely venting through the expansion tank and resample.

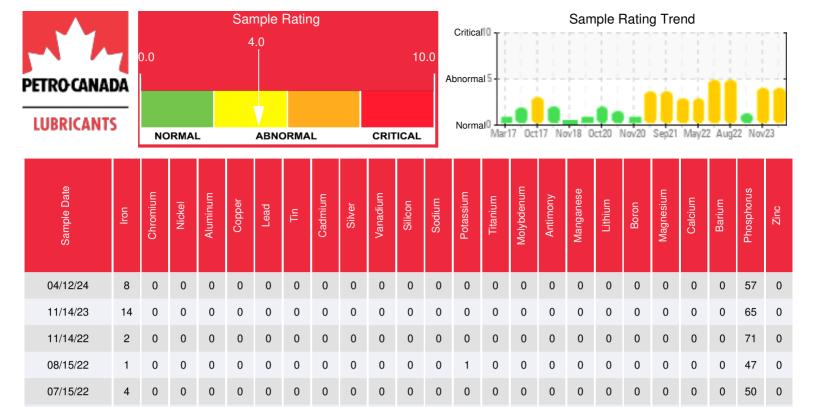
Comments: COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high.







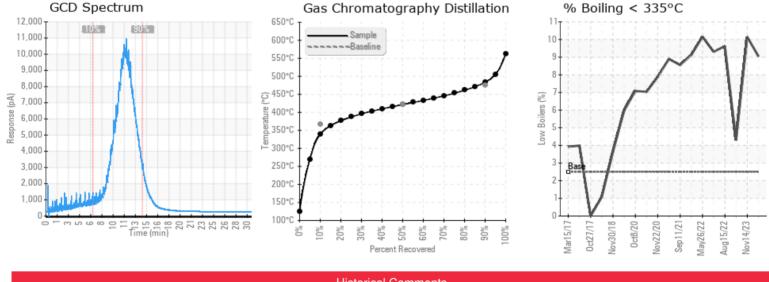




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

0

Baseline Data



Historical Comments	
11/14/23	Flash point is marginally low and this correlates to the higher GCD % below 335C. Consider venting low boilers through the expansion tank. Resample next interval to monitor. COC Flash Point is abnormally low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.
11/14/22	No indication of asphalt contamination. GCD at 90% is slightly higher than normal. Resample at the next interval to monitor. (GCD) 90% Distillation Point is abnormally high. Visc @ 40°C is abnormally low.
08/15/22	Flash point and viscosity remain abnormally low. GCD % <335C is elevated and the GCD graph shows the presence of low boilers from thermal degradation. Fluid should be safely vented through the expansion tank or a partial or full fluid change should be made. COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.
07/15/22	Flash Point is severely low and GCD% below 335C is high showing the formation of low boilers. COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.

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