

## **HEATTRANSFER**

## Customer: PTRHTF10226

LAKESIDE INDUSTRIES 8198 Old Hwy 99 North Rd Burlington, WA 98233 US

Attn: Rex Bebee

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# System Information

System Volume: 0 gal

Bulk Operating Temp: Not Specified

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make:

### Sample Information

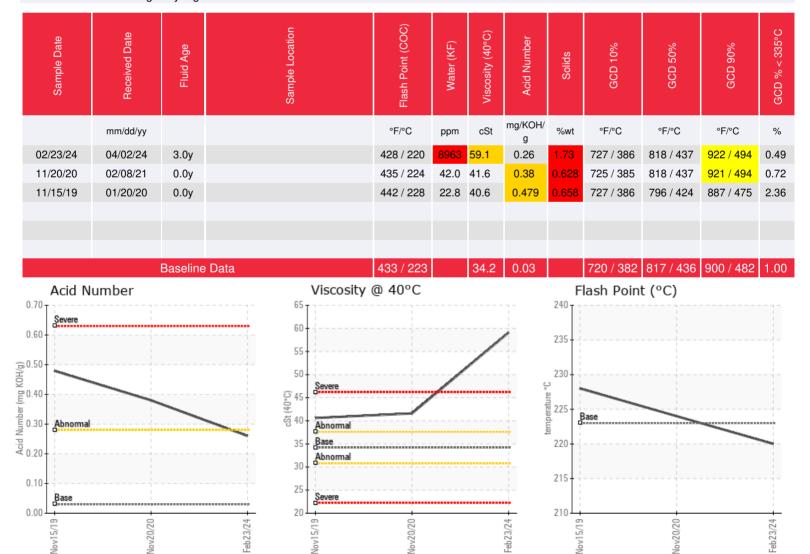
Lab No: 02626269 Analyst: Ron LeBlanc Sample Date: 02/23/24 Received Date: 04/02/24 Completed: 04/16/24

Ron LeBlanc

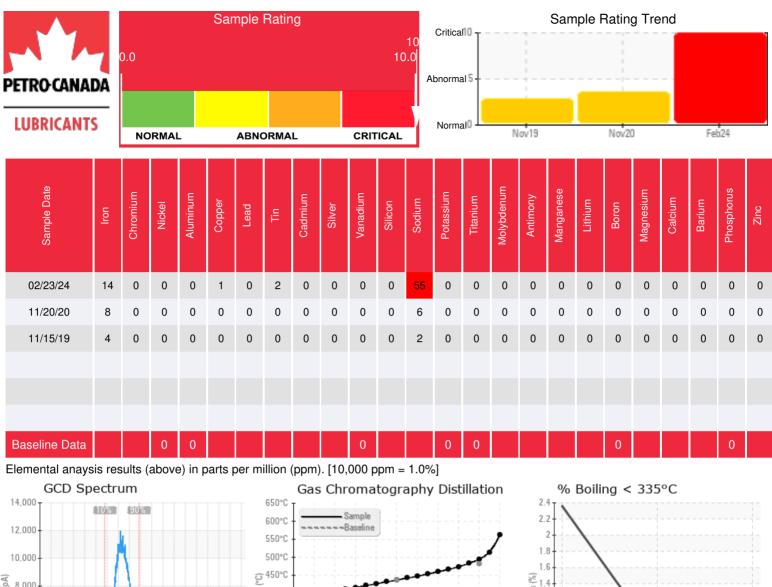
Ronald.LeBlancSr@HFSinclair.com

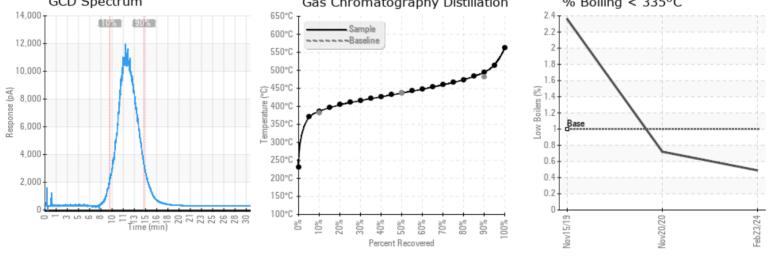
Recommendation: The sample indicates the oil has been in service too long. The viscosity has increased significantly. Water concentration is severely high which relates to the sodium level. Pentane insolubles are high indication varnish/sludge forming from oxidation of the oil. The (GCD) 90% Distillation point is elevated indicating thickening of the oil due to varnish/sludge. As acids form the varnish/sludge can damage piping in the system from corrosives in the oil. It is recommended to clean, flush and refill system.

Comments: Water contamination levels are severely high. Water contamination levels are severely high. ppm Water contamination levels are severely high. Pentane Insolubles levels are severely high. Sodium ppm levels are severely high. Visc @ 40°C is abnormally high. (GCD) 90% Distillation Point is marginally high.



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The (GCD) 90% Distillation Point is high indicating high boilers are above the new fluid levels. These can lead to deposits. Pentane insolubles and water level is high indicating contamination. Check strainer/filter for contamination. Resample in 3 months. Pentane Insolubles levels are severely high. Acid Number (AN) is 11/20/20 abnormally high. (GCD) 90% Distillation Point is marginally high. AN is slightly elevated. The oil appears to be slightly oxidized. Re-sample in 3 months. Be sure to purge oil from collection point before filling sample container to insure quality of sample. Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high. 11/15/19

**Historical Comments** 

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