

ASPHALTPLANT

Customer: PTRHTF10232

LINDAHL BROTHERS INC 6525 99TH ST

CHICAGO RIDGE, IL 60415 US

Attn: Scott Schneider

Tel:

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System Information

System Volume: 400 ltr

Bulk Operating Temp: 626F / 330C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: HY-WAY

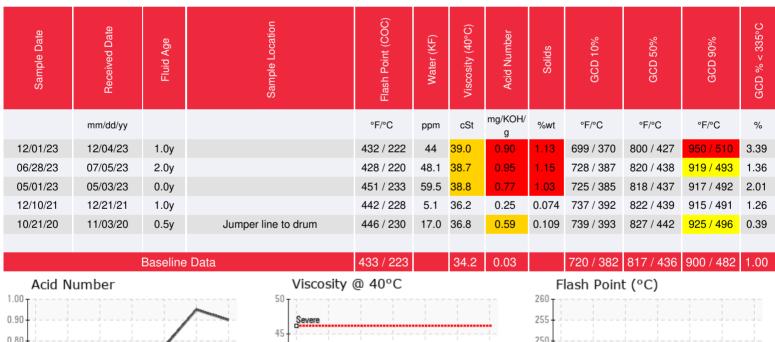
Sample Information

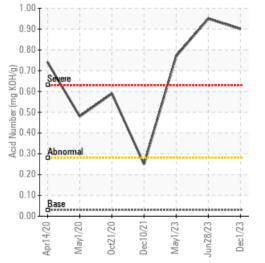
Lab No: 02600753 Analyst: Yvette Trzcinski Sample Date: 12/01/23 Received Date: 12/04/23 Completed: 12/06/23 Yvette Trzcinski

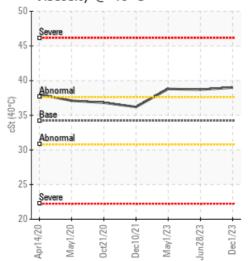
vvette.trzcinski@HFSinclair.com

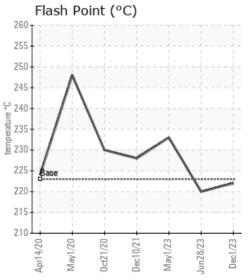
Recommendation: The boiling point at 90% has increased since the last sample and the solids and total acid number are very high -the fluid is severely oxidized which affects the efficiency of the system. Recommend cleaning, flushing and recharging the system

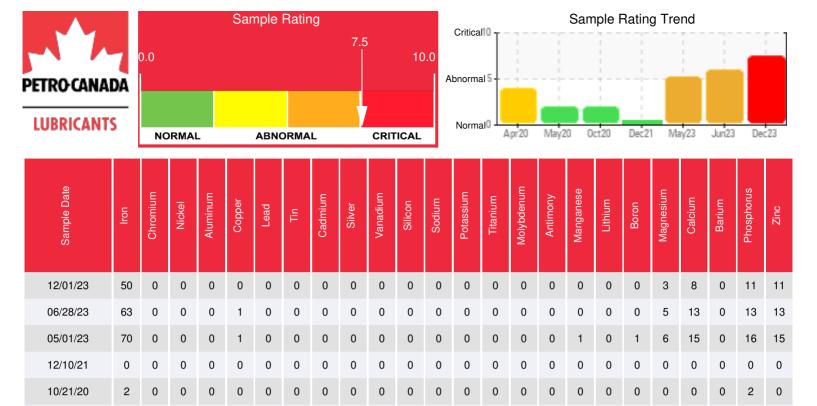
Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. (GCD) 90% Distillation Point is severely high. Visc @ 40°C is abnormally high.







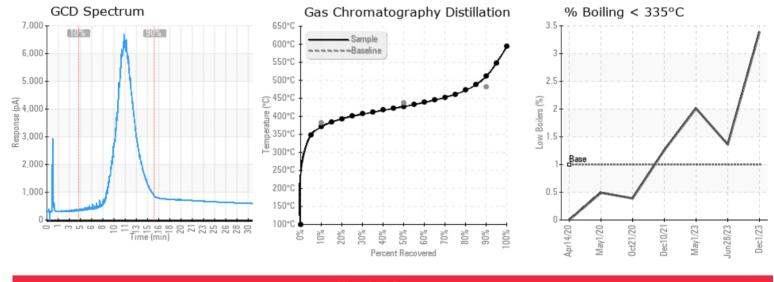




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

0

Baseline Data



Historical Comments Acid number and solids have increased from the sample taken in May fluid appears to be degraded and oxidized which explains the increase in viscosity, acid number and solids and the increase in the GCD boiling point at 90%. The degradation and solids in the system will reduce system efficiency. If there is a system 06/28/23 filter in place recommend changing the system filter more often to help clean up some of the solids. Recommend draining and flushing the system when possible This 600 gallon system showing signs of degradation acid number is very high at 0.77 with an increased viscosity of over 13% from new oil and extremely high solids of 1.03. Recommend draining and flushing the system to remove deposits and solids and recharge with new fluid Pentane Insolubles levels are severely 05/01/23 high. Acid Number (AN) is severely high. Visc @ 40°C is abnormally high. Heat Transfer sample specification are all at acceptable levels viscosity, acid number and GCD 10%, 50 %, 90% and insolubles. resample at the next recommended sampling interval 9-12 months 12/10/21 The fluid shows signs of degradation the AN total acid number is high and there is oxidation and large molecules apparent in the system. Recommend draining and flushing the system within the next 6-12 months and then resample the new fluid at 6 months. Acid Number (AN) is abnormally high. (GCD) 90% Distillation 10/21/20 Point is marginally high.

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