

## [Sandeno East Asphalt Plant] DCONSTRUCTIONDEAST

## Customer: PTRHTF30107

D-CONSTRUCTION 16805 QUARRY RD MORRIS, IL 60450 USA

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## System Information

System Volume: 350 gal

Bulk Operating Temp: 500F / 260C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: BURKE

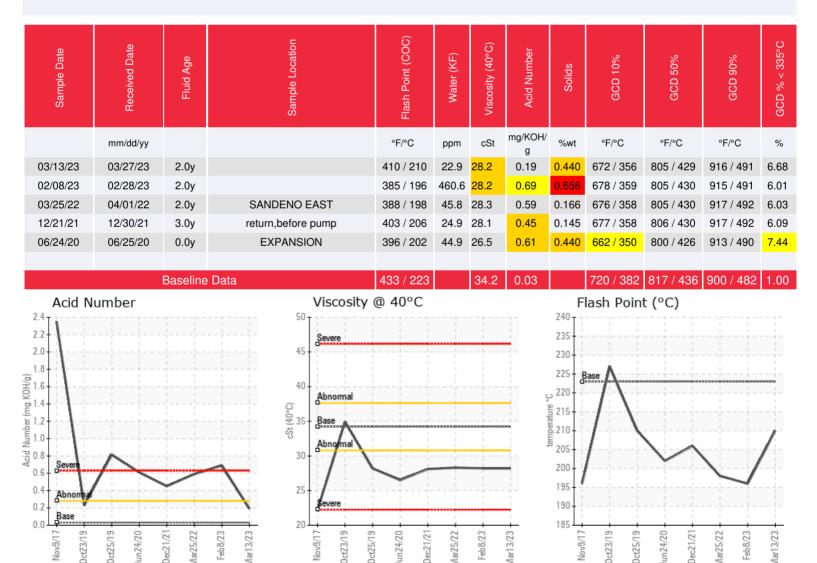
## Sample Information

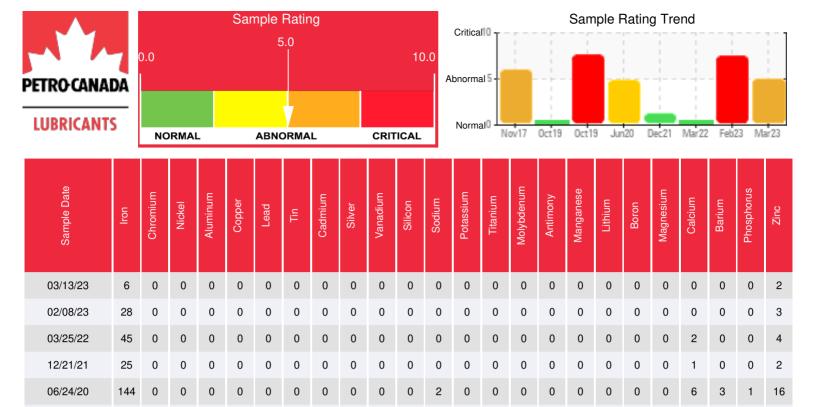
Lab No: 02547836 Analyst: Yvette Trzcinski Sample Date: 03/13/23 Received Date: 03/27/23 Completed: 03/30/23 Yvette Trzcinski

yvette.trzcinski@HFSinclair.com

Recommendation: Re-sample is showing much lower acid number and a lower solids than the sample from February but the solids are at a cautionary level which can lead to solids plating out in the system in low flow areas or could which could lead to performance and control issues in the system. The flash point, boiling temperatures and acid number are within specification resample in 9 -12 months

Comments: Pentane Insolubles levels are abnormally high. Visc @ 40°C is abnormally low.

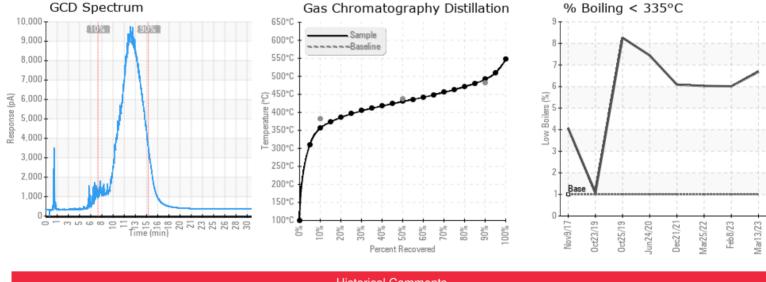




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

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Baseline Data



Historical Comments	
02/08/23	Pentane Solids are very high as is the acid number I recommend resampling to ensure this is a representative sample of the oil in the system before making any recommendations. Pentane Insolubles levels are severely high. Acid Number (AN) is abnormally high. Visc @ 40°C is abnormally low.
03/25/22	The fluid viscosity, boiling points and insolubles are all with in specification. There is a slight decrease in the flash point due to some low boilers (GCD % < 335 C) which are low viscosity components due to degradation in the system. Venting of the low boilers is an option if they continue to increase. Fluid is acceptable for continued usage resample in 6-12 months.
12/21/21	The fluid parameters are all in specification except for the high acid number I suggest resampling in 6 months to monitor the acid number if it continues to increase look to sweeten the system with new heat transfer fluid. Acid Number (AN) is abnormally high.
06/24/20	acceptable for continued service - sample in 1-2 months to monitor total acid number and low boilers - operating temperature of the system is 325 F Pentane Insolubles levels are abnormally high. Acid Number (AN) is abnormally high. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.

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