

WEST HOT OIL SYSTEM

Customer: PTRHTF10004

ADM VITAMIN E PLANT 3700 EAST DIVISION STREET DECATUR, IL 62526 US

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System Information

System Volume: 2200 gal

Bulk Operating Temp: 550F / 288C

Heating Source:

Blanket:

Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID

Make: AMERICAN

Sample Information

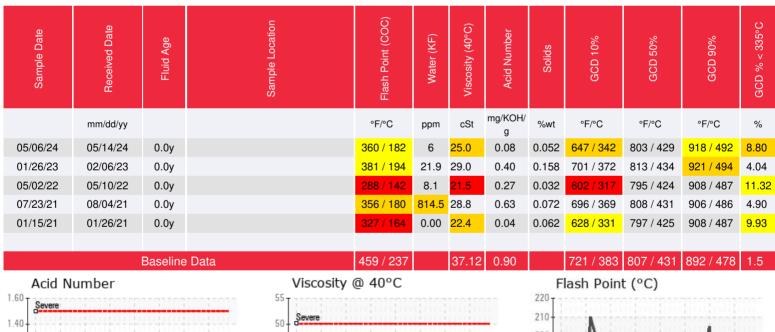
Lab No: 02635436 Analyst: Joe Goecke Sample Date: 05/06/24 Received Date: 05/14/24 Completed: 05/16/24

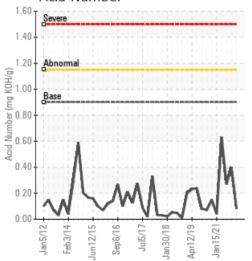
Joe Goecke

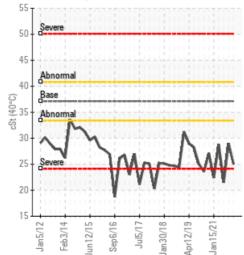
Joe.goecke@HFSinclair.com

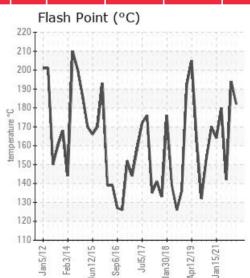
Recommendation: System is approaching critical levels on Viscosity and flash point. The oil is being stressed on the at the Distillation point <335C and apporaching 10%. The oil should be continued to be used by strongly suggest resampling in 90-120 days to determine trend.

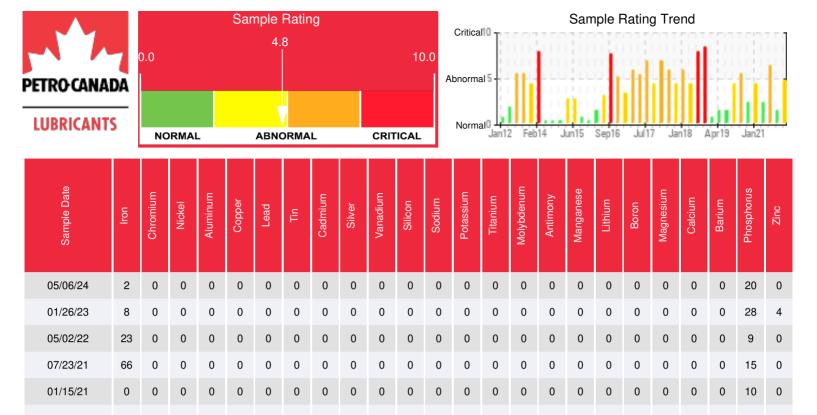
Comments: COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high. (GCD) 90% Distillation Point is marginally high.







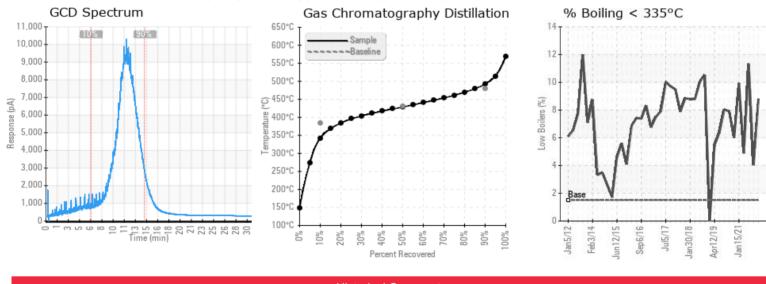




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

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Baseline Data



Historical Comments		
	01/26/23	Looks like system was changed from last sample - viscosity has increased seeing some light boilers which are lower viscosity due to degradation from the fluid which also lowers the flash point but all parameters are in acceptable levels. Resample in 4-6 months to monitor fluid condition
	05/02/22	Low boilers have increased which has lowered the flash point to a critical level we need to resample in 3 -6 months to watch and monitor to determine when a partial or full change out will be required -
	07/23/21	Viscosity, low boilers have risen to acceptable levels and the flash point has increased by 16 degrees system is looking better. There is some water in the system it is within acceptable limits -but please check for any areas where water could be entering the system. Continue with the fluid and re sample at your next scheduled interval
	01/15/21	Viscosity dropped 5 points, flash point dropped 6 degrees C, and low boilers have risen almost 4%. This system is nearing a partial or full change. I suggest continuing to run the system but resample in 2 months and prepare for maintenance this spring or early summer. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) % < 335°C is marginally high.

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