

[VIT E 116] EAST

Customer: PTRHTF10004

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

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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

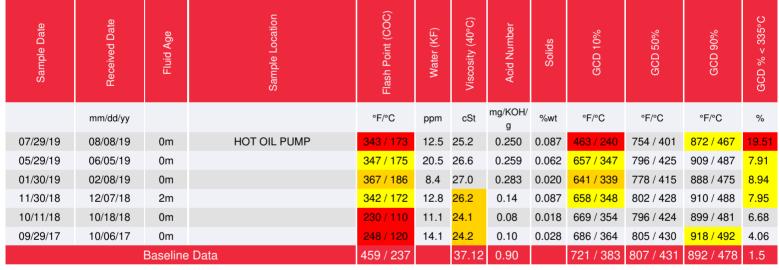
Make: AMERICAN HEATING

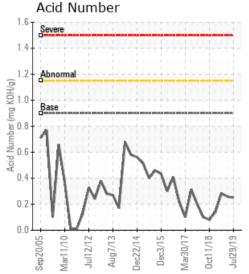
Sample Information

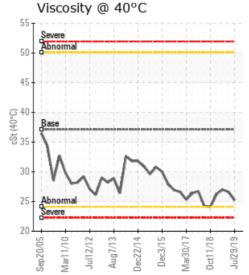
Lab No: 02301670 Analyst: Joe Goecke Sample Date: 07/29/19 Received Date: 08/08/19 Completed: 08/12/19

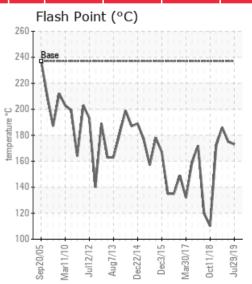
Recommendation: Low Boilers are very high at almost 20%. Flash point not much change or viscosity. Please consider a system change in the next 30-60 days with a resample.

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

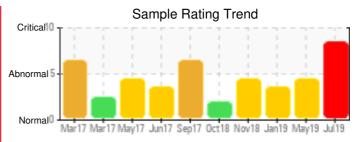






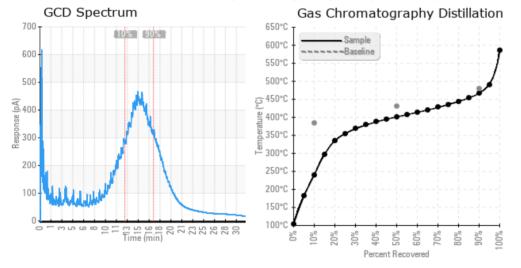


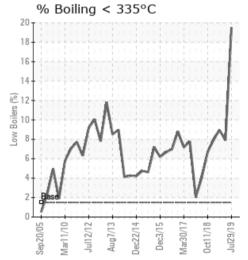




Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
07/29/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
05/29/19	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
01/30/19	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	2
11/30/18	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
10/11/18	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
09/29/17	11	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	0
Baseline Data			0	0						0			0	0					0				230	

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





	Historical Comments
05/29/19	Low boilers approaching 8% with viscosity and flash points both slightly lower the system is showing some signs of these building up in the system. System is okay for continued use resample in 60-90 days. COC Flash Point is severely low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.
01/30/19	This sample looks better than the last. Light ends are fairly stable, flash point 10 degrees higher, and viscosity slightly higher. Overall fluid looks okay for continued use. Resample at next scheduled interval. COC Flash Point is abnormally low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.
11/30/18	Sample has improved on Flash Point and viscosity. Sample looks okay to continue use and resample next quarter. COC Flash Point is severely low. (GCD) % < 335°C is marginally high. (GCD) 10% Distillation Point is marginally low.
10/11/18	Flash point and Viscosity remain low, however low boilers are within range. Continue to use and resample in 60 days. COC Flash Point is severely low. Visc @ 40°C is abnormally low.
09/29/17	Flash point is very low on this sample. Although other tests that would normally support this like GCD <335 and viscosity are not too far out of range I would recommend resampling in 30 days to confirm the flash point. If it continues to remain low a complete or partial change should be considered. COC Flash Point is severely low. (GCD) 90% Distillation Point is marginally high.

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