

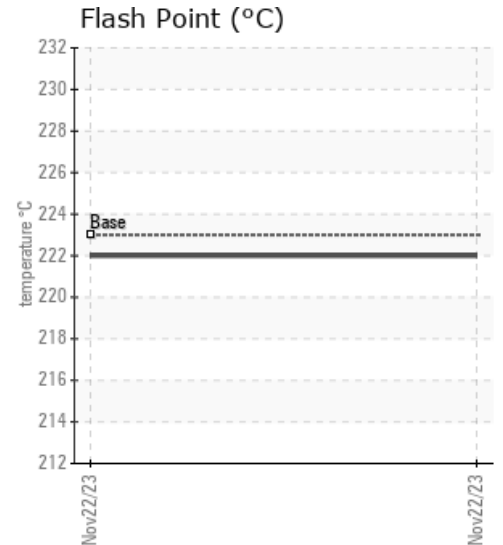
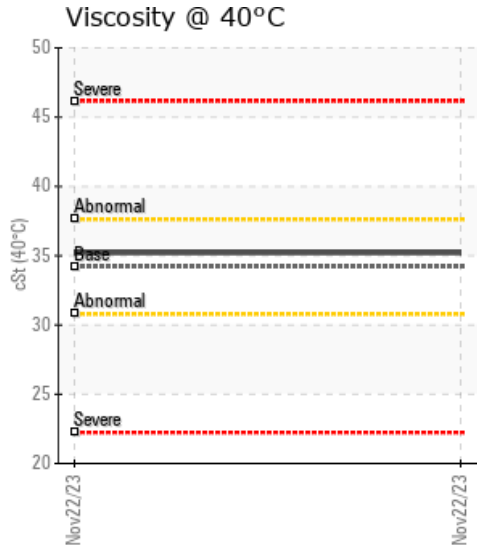
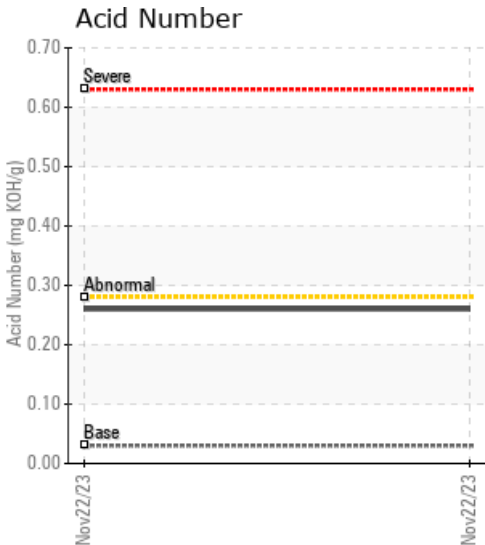
HEAT TRANSFER

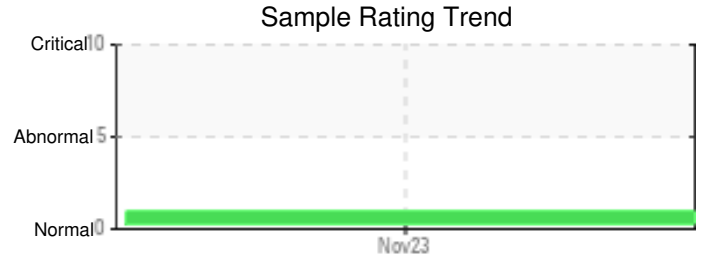
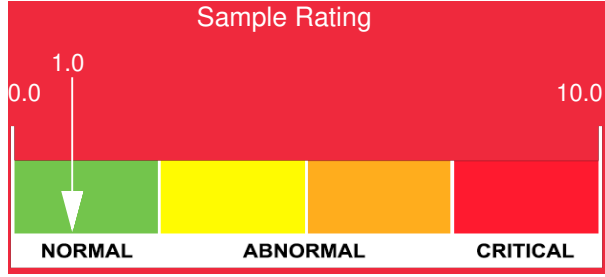
Customer: PTRHTF60049	System Information	Sample Information
CENTRAL ASPHALT 900 S BRADLEY ST MOUNT PLEASANT, MI 45858 US Attn: J. Greenacre Tel: E-Mail: jgreenacre@thefisher.co	System Volume: 400 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HEATEC	Lab No: 02600274 Analyst: Yvette Trzcinski Sample Date: 11/22/23 Received Date: 12/01/23 Completed: 12/06/23 Yvette Trzcinski yvette.trzcinski@HFSinclair.com

Recommendation:

Comments: There is some oxidation in the system the total acid number and the boiling point of 90% have increased but the solids are low and viscosity is within specification. Fluid is satisfactory for continued service. Resample in 9-12 months (GCD) 90% Distillation Point is marginally high.

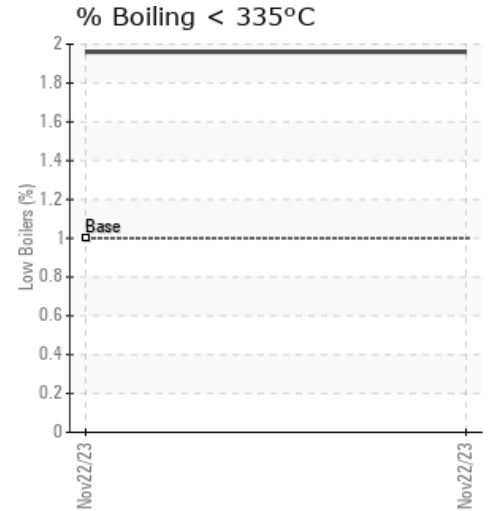
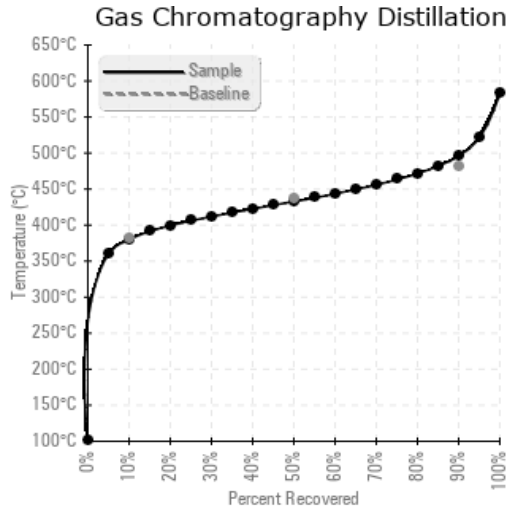
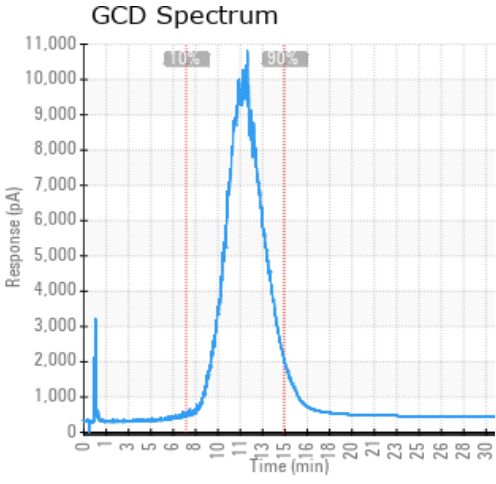
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/22/23	12/01/23	5.0y		432 / 222	6	35.2	0.26	0.052	716 / 380	811 / 433	924 / 496	1.96
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





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
11/22/23	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0			0	0					0				0	

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



Historical Comments

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