

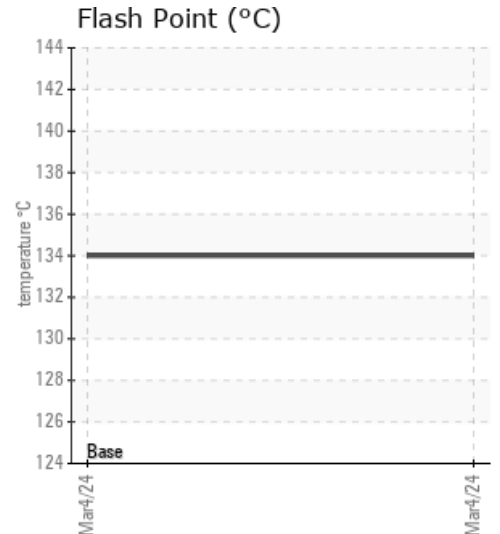
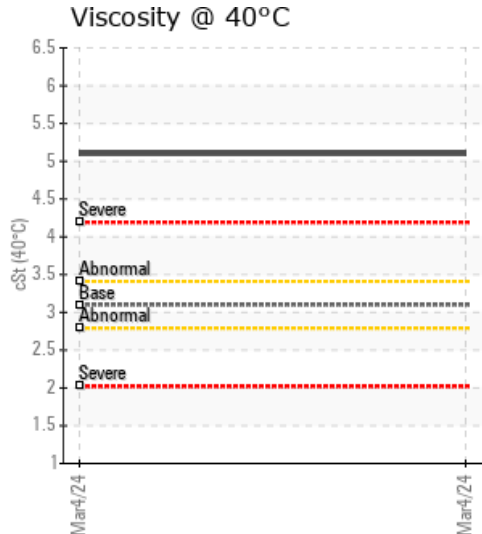
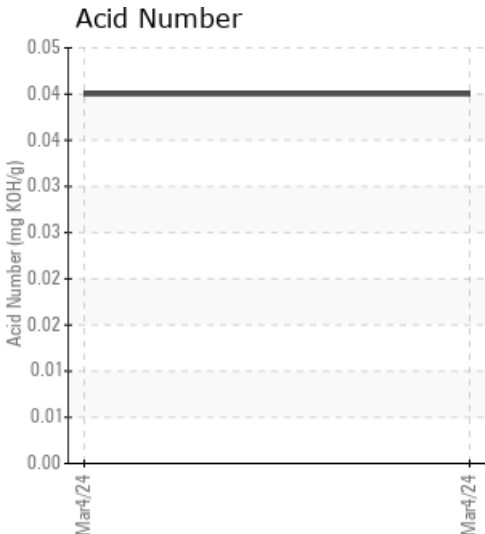
PHASE 2 HOT OIL

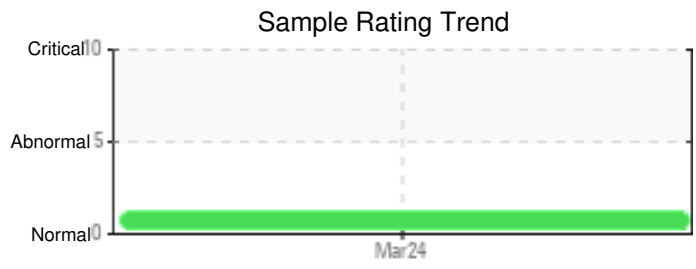
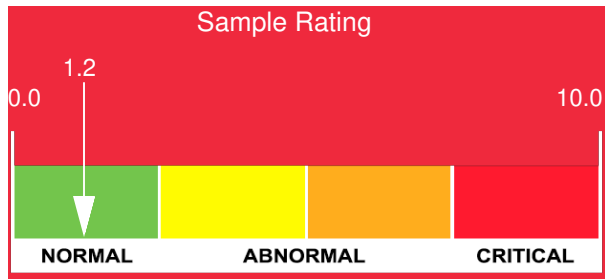
Customer: PTRHTF20253	System Information	Sample Information
Plains Midstream Canada LCD 1 SOUTH PO BOX 1150 EMPRESS, AB T0J 1E0 CA Attn: Sandeep Sekhon Tel: E-Mail:	System Volume: 0 gal Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: ESSO OIL 1156 Make:	Lab No: 02621855 Analyst: Lyle Dach Sample Date: 03/04/24 Received Date: 03/13/24 Completed: 04/01/24 Lyle Dach lyle.dach@HFSinclair.com

Recommendation: Overall the fluid appears to be in good condition. The viscosity and flash point are likely increased due to the addition of Petro Therm. Water content, acid number and pentane insolubles are all low, there is no indication that fluid is degraded.

Comments: Visc @ 40°C is abnormally high. COC Flash Point is marginally high.

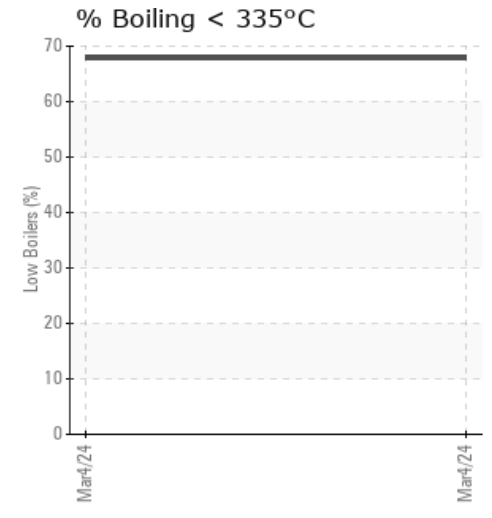
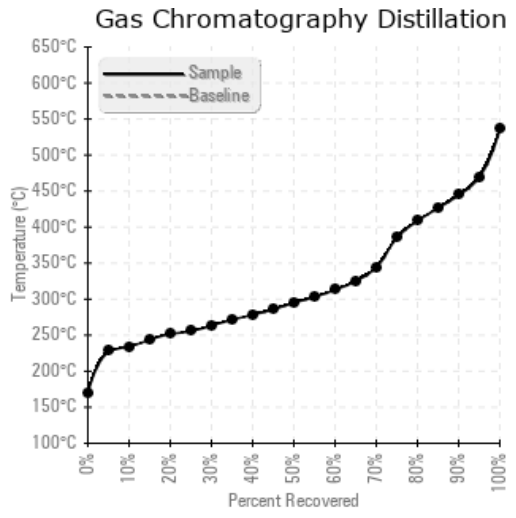
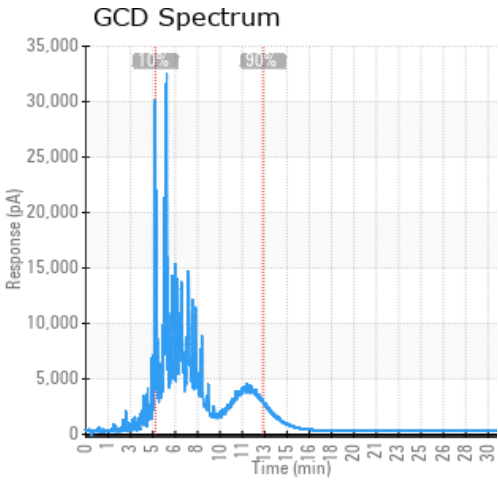
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/04/24	03/13/24	42.0y		273 / 134	24	5.1	0.04	0.023	452 / 234	563 / 295	831 / 444	67.85
Baseline Data				212 / 100		3.1						





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
03/04/24	0	0	0	0	0	0	0	0	0	0	0	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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