

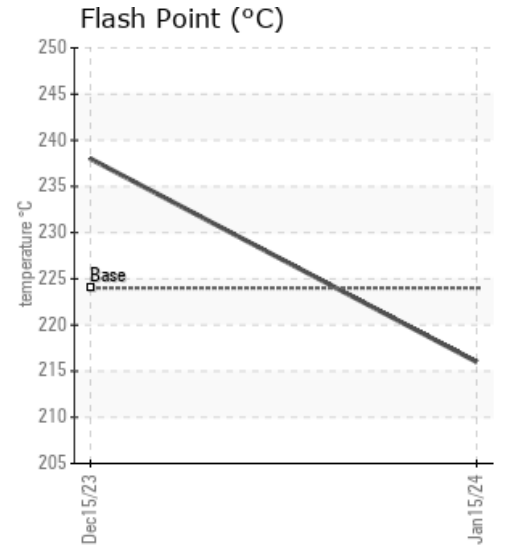
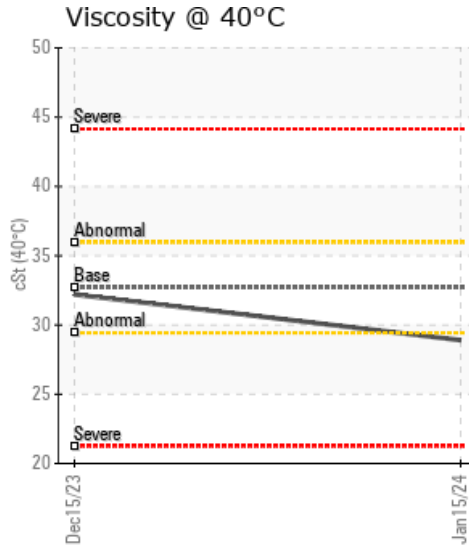
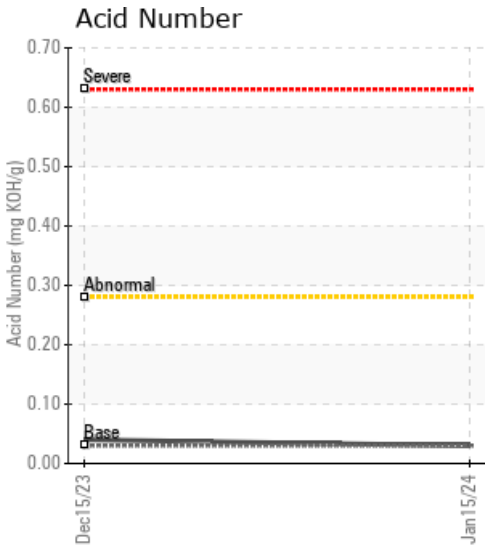
[15-31-039-05-W5] H407A

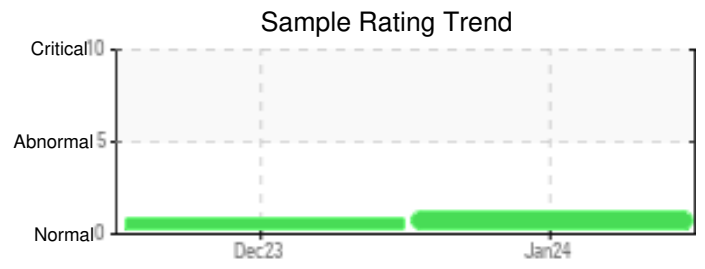
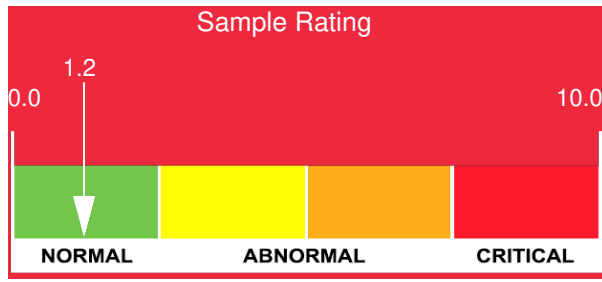
Customer: PTRHTF60059	System Information	Sample Information
Paramount Resources Inc. Box 43 Site #4 RR2 Rocky Mountain House, AB T4T 2A2 CA Attn: Curtis Visser Tel: (403)846-8001 E-Mail: curtis.visser@paramountres.com	System Volume: 25000 ltr Bulk Operating Temp: 572F / 300C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: TDE	Lab No: 02619088 Analyst: Lyle Dach Sample Date: 01/15/24 Received Date: 02/29/24 Completed: 03/07/24 Lyle Dach lyle.dach@HFSinclair.com

Recommendation: Fluid appears to be in good condition. viscosity has dropped slightly, if there is high pressure blanket gas it can become entrained in the fluid and reduce the viscosity. Blanket gas pressure is recommended to be in the 2-3 PSI range. Resample in 6 months.

Comments: (GCD) 90% Distillation Point is abnormally high. Visc @ 40°C is abnormally low.

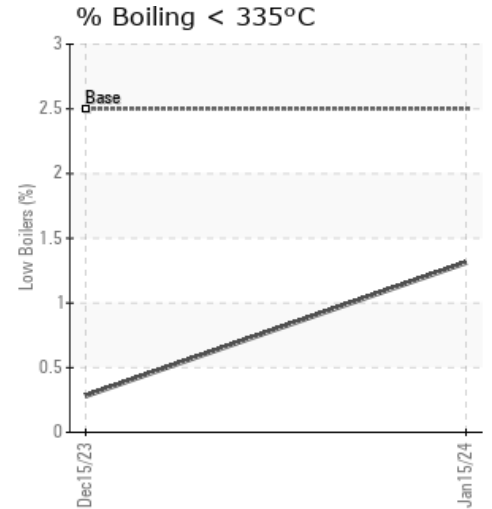
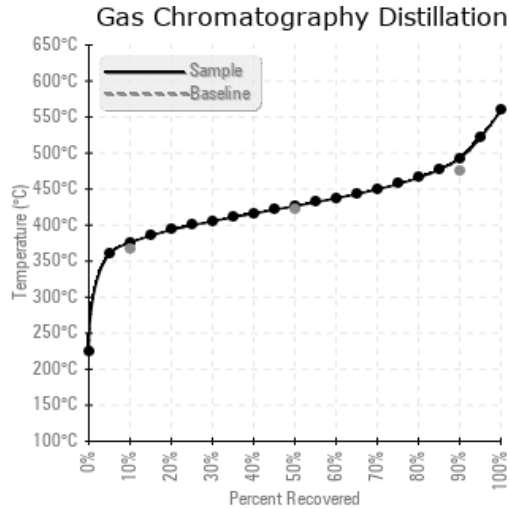
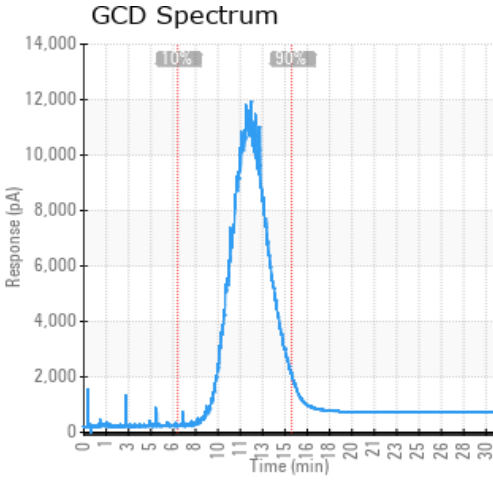
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/15/24	02/29/24	1.0m	sample point mid htr	421 / 216	38	28.9	0.03	0.034	708 / 376	800 / 426	918 / 492	1.31
12/15/23	02/29/24	0.0m	truck load line-new	460 / 238	15	32.2	0.04	0.025	712 / 378	802 / 428	920 / 493	0.28
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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
01/15/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
12/15/23	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	282	0
Baseline Data			0	0						0		0	0					0					270	

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



Historical Comments

12/15/23	Results appear to be within specification, 90% GCD is slightly higher than reference. (GCD) 90% Distillation Point is abnormally high.
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