

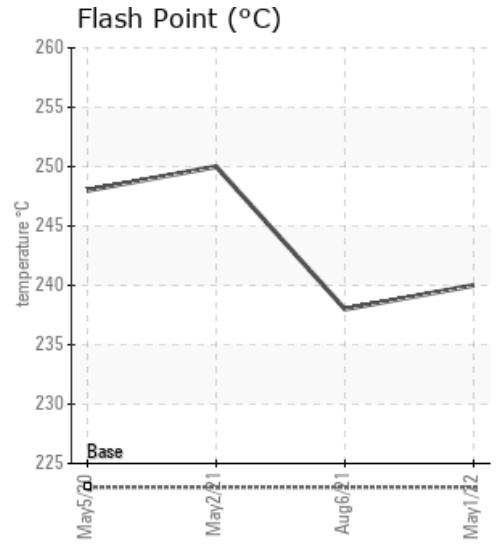
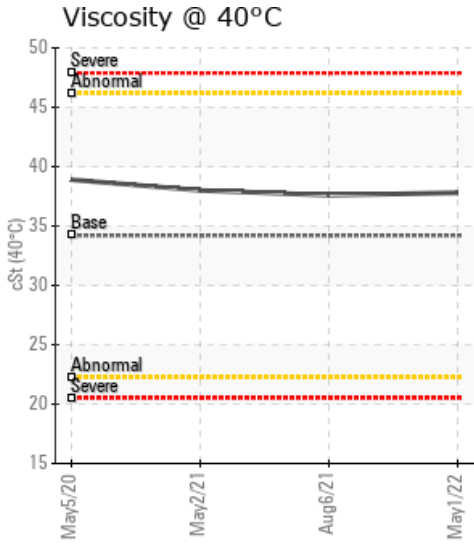
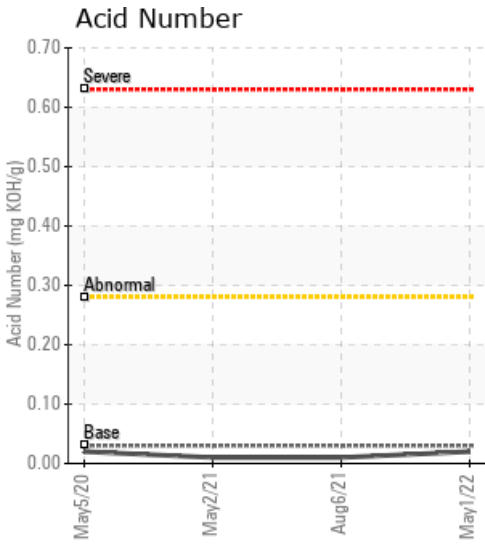
[06-16-64-21W5] 053-LH-101

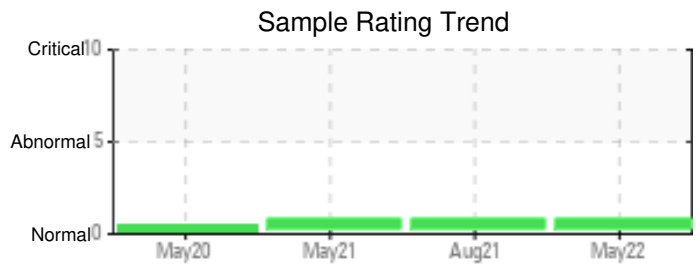
Customer: PTRHTF20230	System Information	Sample Information
Paramount Resources Inc. 101 Main St PO Box 58 Fox Creek, AB T0H 1P0 Canada Attn: Ryan Holtet Tel: (780)622-7078 E-Mail: ryan.holtet@paramountres.com	System Volume: 17800 ltr Bulk Operating Temp: 365F / 185C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02487466 Analyst: Clinton Buhler Sample Date: 05/01/22 Received Date: 05/06/22 Completed: 05/17/22 Clinton Buhler Clinton.Buhler@hollyfrontier.com

Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. Slightly elevated viscosity, flash point and GCD profile likely associated with mixing with Chevron 46 as mentioned in the previous analysis comments. Please re-sample in 12 months.

Comments:

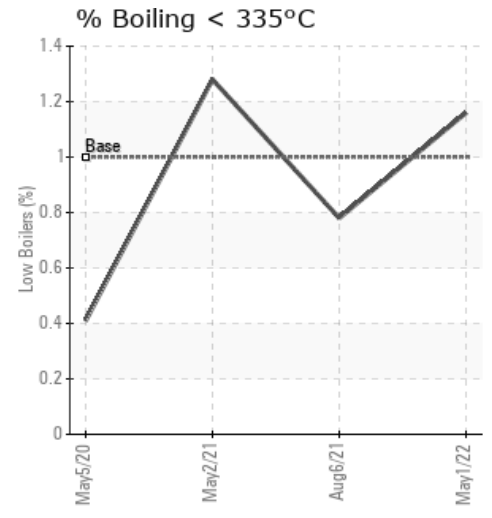
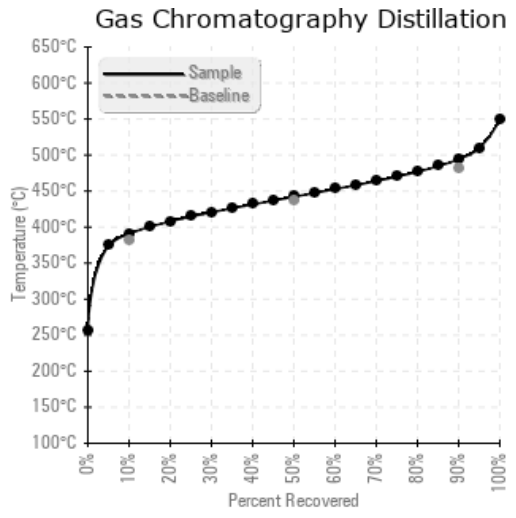
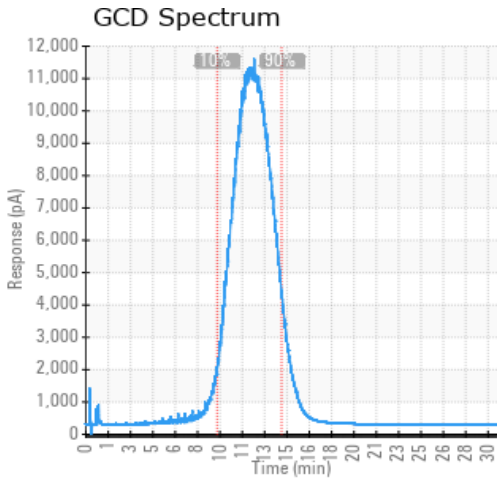
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/01/22	05/06/22	0.0y		464 / 240	8.7	37.8	0.02	0.048	735 / 391	828 / 442	922 / 494	1.16
08/06/21	08/11/21	0.0y	RUSH!	460 / 238	0.00	37.6	0.01	0.038	741 / 394	831 / 444	918 / 492	0.78
05/02/21	05/19/21	2.0y	Low point on straine	482 / 250	0.00	38.0	0.01	0.066	729 / 387	815 / 435	920 / 494	1.28
05/05/20	06/08/20	19.0y		478 / 248	34.4	38.9	0.02	0.065	735 / 391	832 / 444	929 / 498	0.41
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
05/01/22	9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
08/06/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/02/21	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/20	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	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

08/06/21	Sample results indicate that the fluid is in suitable condition for continued service. Slightly elevated viscosity, flash point and GCD profile likely to be associated with mixing with Chevron 46 as mentioned in the last two analysis comments. The fluid analysis does not indicate that the fluid condition would have contribute to the recent tube failure. Please re-sample in 12 months
05/02/21	Sample results indicate that the fluid is in suitable condition for continued service. Slightly elevated viscosity, flash point and GCD profile likely to be associated with mixing with Chevron 46 as mentioned in the previous analysis comments. Please re-sample in 12 months
05/05/20	The fluid is in a good condition and suitable for further use. Previously the system was filled with Chevron HT 46 fluid. Judging from the viscosity, Flash Point and distillation curve it looks like there is still some HT 46 fluid mixed in with the Petro-Therm. Please resample in 6 months.

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