

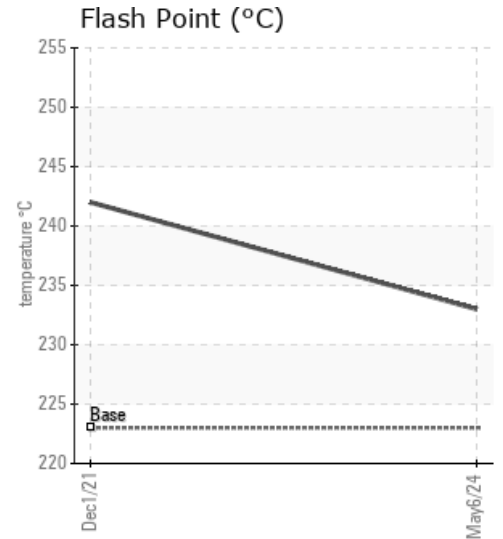
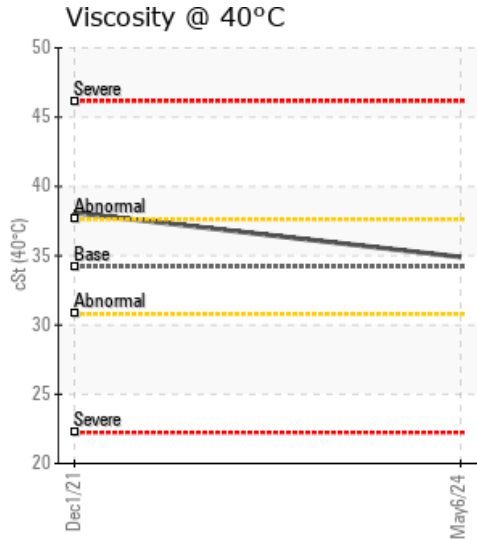
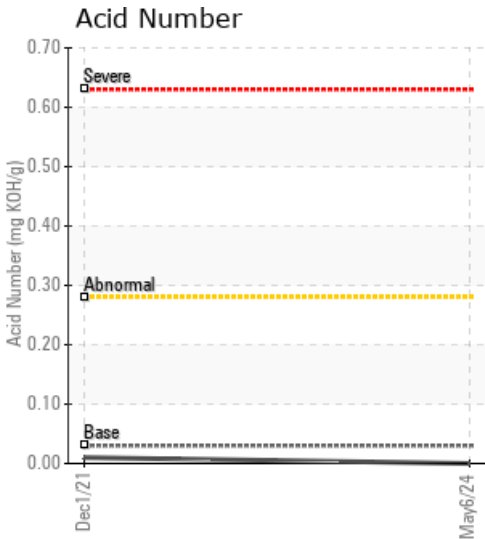
[4-8-47-9W5] V4000 HEAT MEDIUM

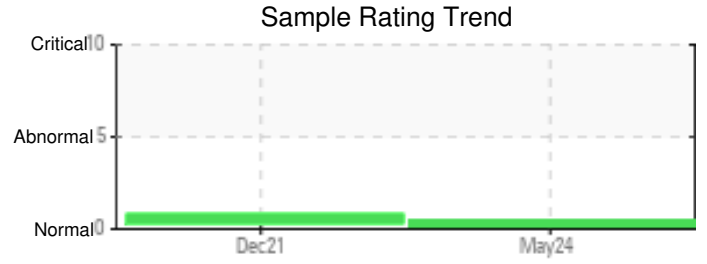
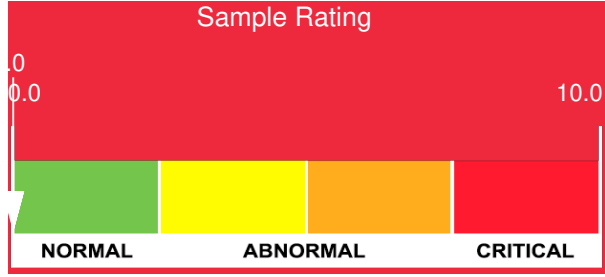
Customer: PTRHTF20263	System Information	Sample Information
BARREL OIL CORP 505 3RD ST W CALAGARY, AB T2P 3E6 CA Attn: Brad Holinaty Tel: (780)898-4007 E-Mail: brad.holinaty@barreloilcorp.com	System Volume: 5500 ltr Bulk Operating Temp: 650F / 343C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: HEATTECH	Lab No: 02634213 Analyst: Yutong Gao Sample Date: 05/06/24 Received Date: 05/08/24 Completed: 05/14/24 Yutong Gao yutong.gao@HFSinclair.com

Recommendation: The current fluid conditions are very similar to the sample in 2021. The oil viscosity and flash points are all normal. There is minimum oxidation and virtually no water contamination. Please continue to run the fluid and take one sample in 3 years.

Comments:

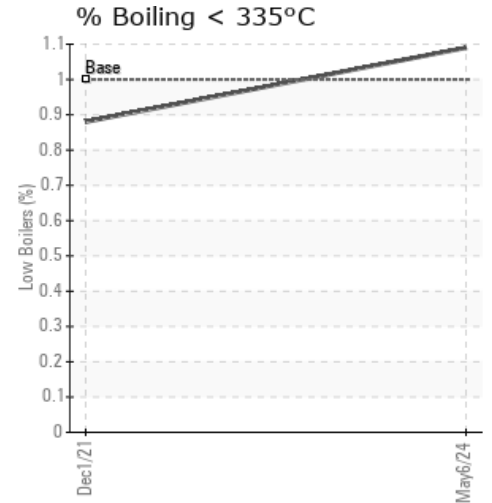
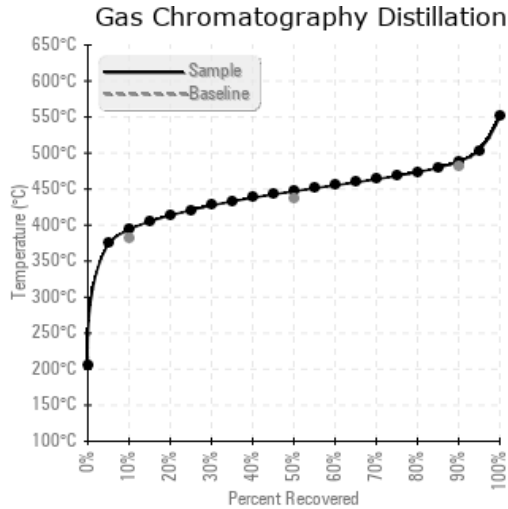
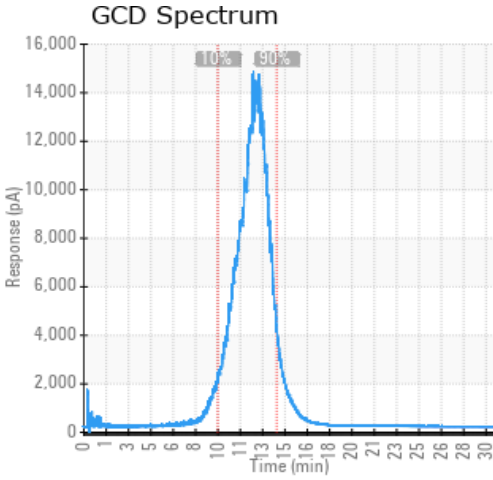
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
05/06/24	05/08/24	60.0m		451 / 233	0	34.9	0.00	0.027	741 / 394	836 / 447	910 / 488	1.09
12/01/21	12/14/21	36.0m	FILTER	468 / 242	14.4	38.1	0.01	0.023	732 / 389	825 / 441	896 / 480	0.88
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
05/06/24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/01/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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

12/01/21	The current Sunoco HTO 21 is in good conditions. The fluid viscosity, flash point and Acid Number are all normal. Please continue to operate. (GCD) 90% Distillation Point is abnormally low.

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