

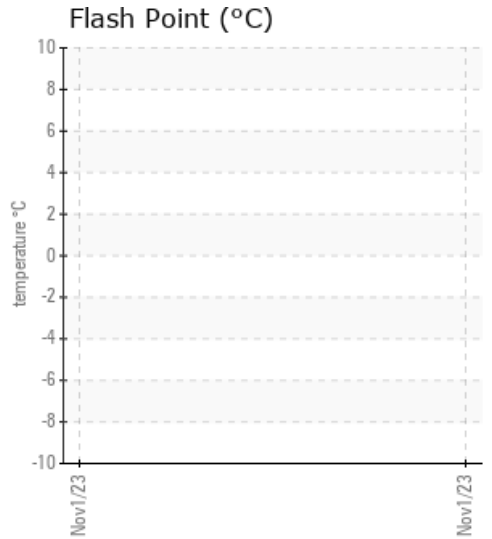
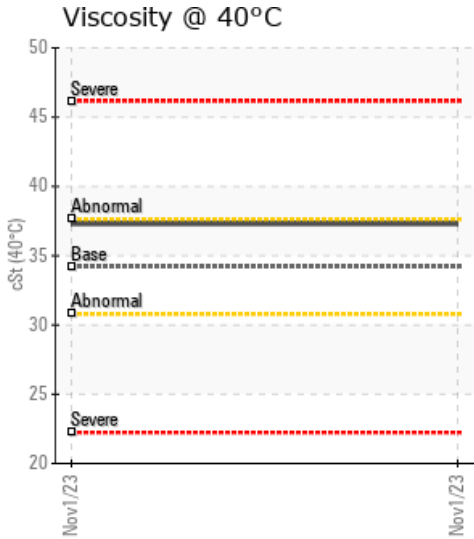
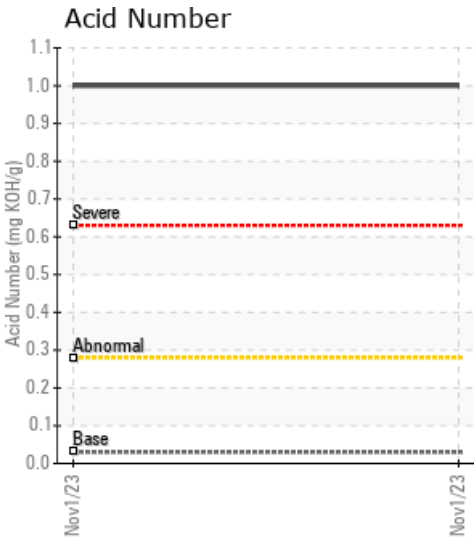
BOILER SYSTEM

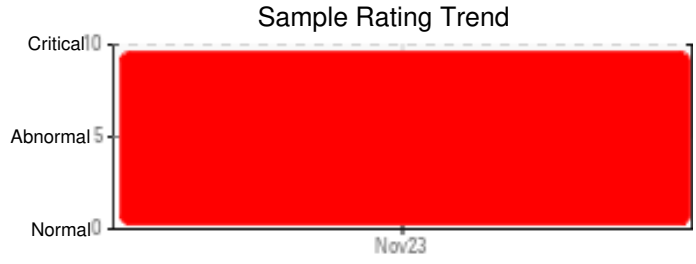
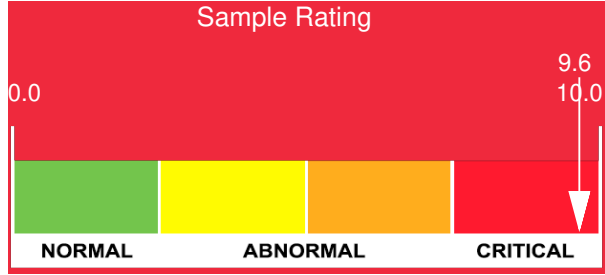
Customer: PTRHTF60046	System Information	Sample Information
FREW ENERGY 180 CUSHMAN RD ST. CATHARINES, ON L2M 6T6 CA Attn: Chris Wilson Tel: (905)685-7334 E-Mail: cwilson@frewenergy.com	System Volume: 0 gal Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02599360 Analyst: Nick Finelli Sample Date: 11/01/23 Received Date: 11/28/23 Completed: 12/14/23 Nick Finelli nick.finelli@hfsinclair.com

Recommendation: This oil is past it's use. It has degraded now and the building acid number is contributing to the high iron values.

Comments: PQ levels are severe. Iron ppm levels are abnormal. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high.

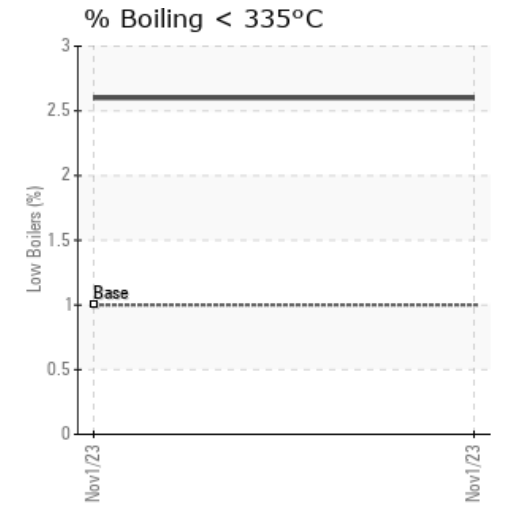
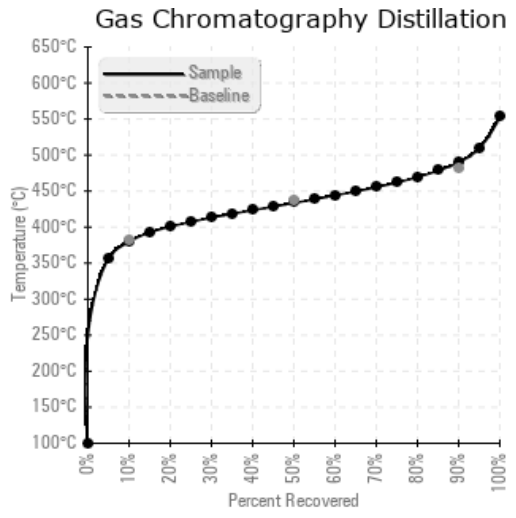
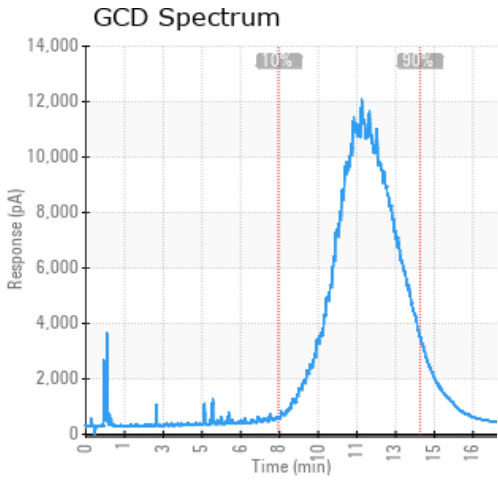
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/01/23	11/28/23	2.0y			104	37.3	1.00	1.39	716 / 380	812 / 434	913 / 490	2.60
Baseline 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
11/01/23	337	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	1	20
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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