

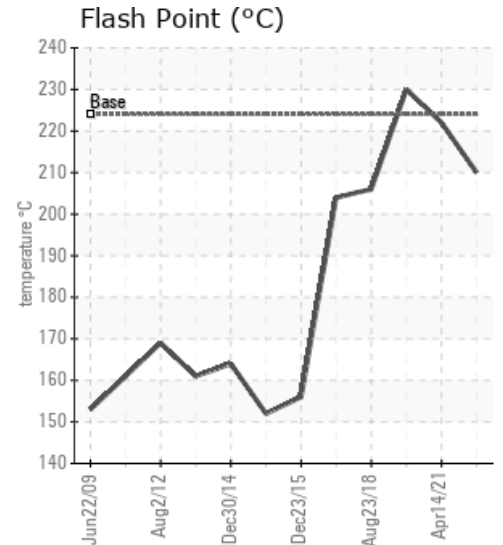
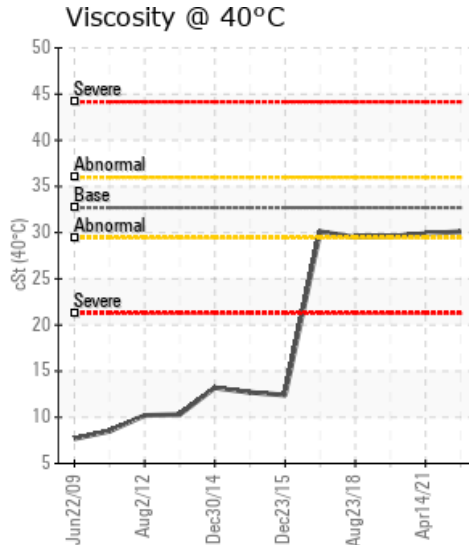
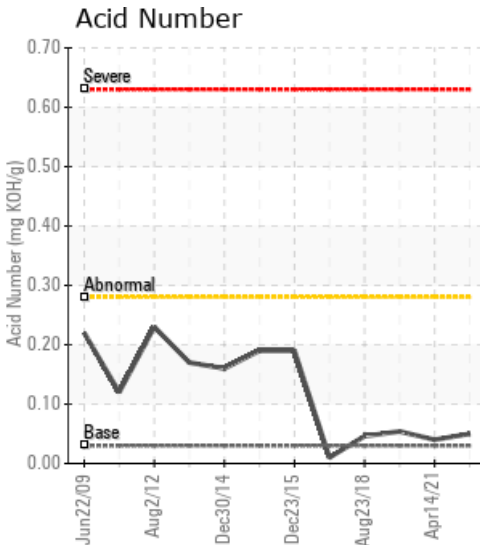
LAMINATE OIL HEATER

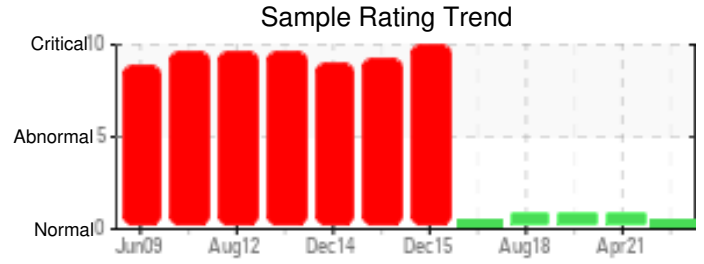
Customer: PTRHTF10067	System Information	Sample Information
CERTAINTEED - SAINT GOBAIN 620 AERO DRIVE SHREVEPORT, LA 71107 US Attn: Chris Ledbetter Tel: E-Mail: chris.ledbetter@saint-gobain.com	System Volume: 1100 gal Bulk Operating Temp: 460F / 238C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: FIRST THERMAL HEATER	Lab No: 02606134 Analyst: Jake Finn Sample Date: 12/19/23 Received Date: 01/02/24 Completed: 01/05/24 Jake Finn jake.finn@HFSinclair.com

Recommendation: Sample appears to be in great condition and suitable for continued use. Please resubmit for testing in 12 months.

Comments: N/A

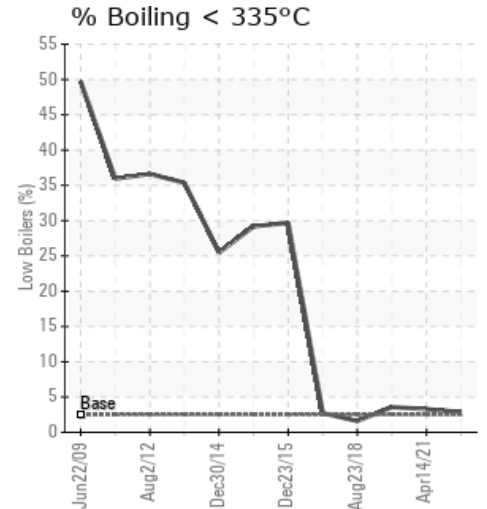
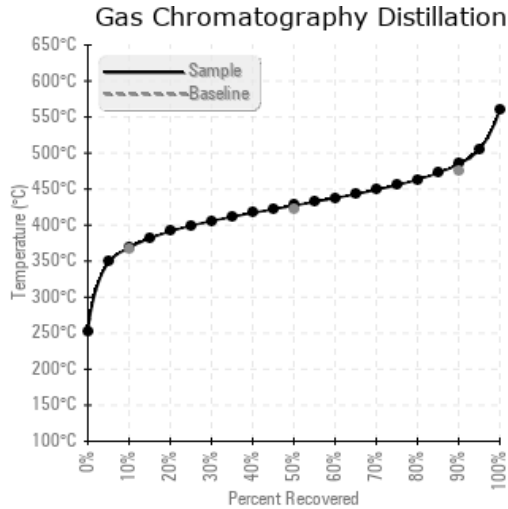
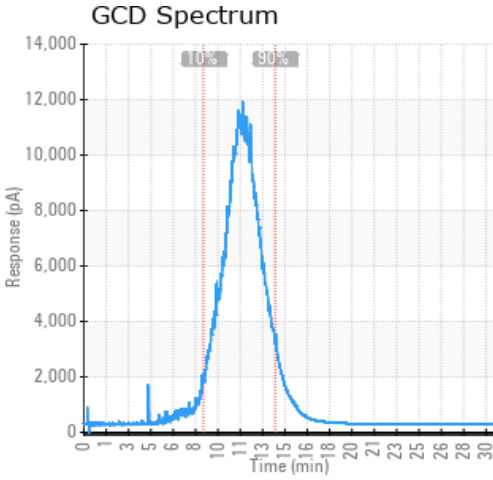
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/19/23	01/02/24	0.0m		410 / 210	26	30.1	0.05	0.037	695 / 369	801 / 427	904 / 485	2.87
04/14/21	04/23/21	0.0m		432 / 222	16.3	29.9	0.04	0.039	690 / 366	793 / 423	922 / 494	3.29
01/29/20	02/05/20	0.0m	SOUTH MAIN HOT PUMP	446 / 230	8.8	29.6	0.054	0.045	669 / 354	768 / 409	865 / 463	3.58
08/23/18	08/31/18	36.0m	INLINE FILTER	403 / 206	11.5	29.5	0.046	0.015	697 / 369	798 / 426	902 / 483	1.59
06/21/17	07/18/17	18.0m	DRAIN LINE	399 / 204	21.5	30.1	0.01	0.038	694 / 368	799 / 426	900 / 482	2.73
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
12/19/23	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	57	0
04/14/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
01/29/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
08/23/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
06/21/17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	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	
04/14/21	90% distillation point (GCD) is abnormally high, but sample other wise indicates the fluid is suitable for continued use. Please sample and resubmit for testing in one year.(GCD) 90% Distillation Point is abnormally high.
01/29/20	The oil condition is acceptable and warrants no action at this time. Re-sample at next scheduled interval. (GCD) 90% Distillation Point is marginally low.
08/23/18	The oil condition is looking good and please resample every year at least.
06/21/17	The oil appears to be in excellent condition. Based on the results there are no signs of degradation or contamination by asphalt, water or other foreign elements. Viscosity, flash point and other properties look normal. Re-sample yearly

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