

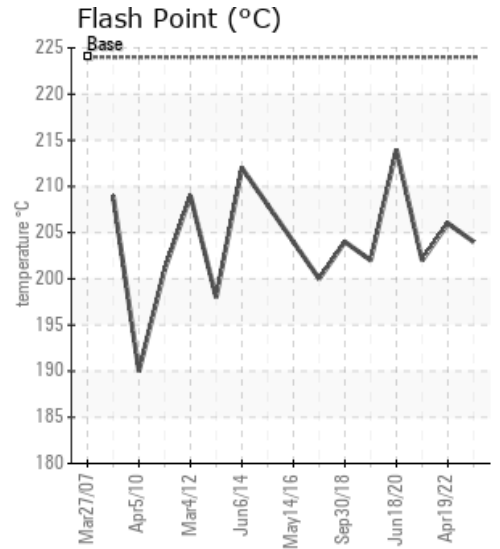
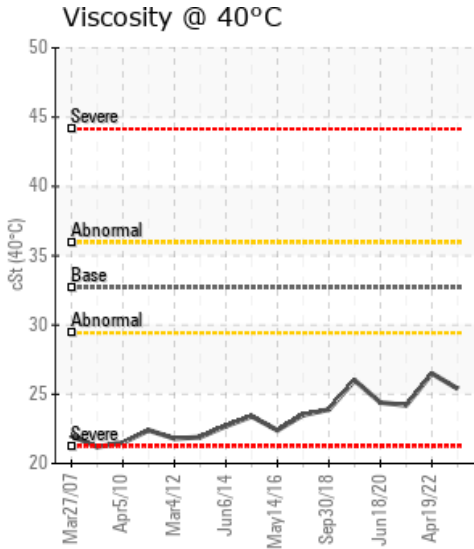
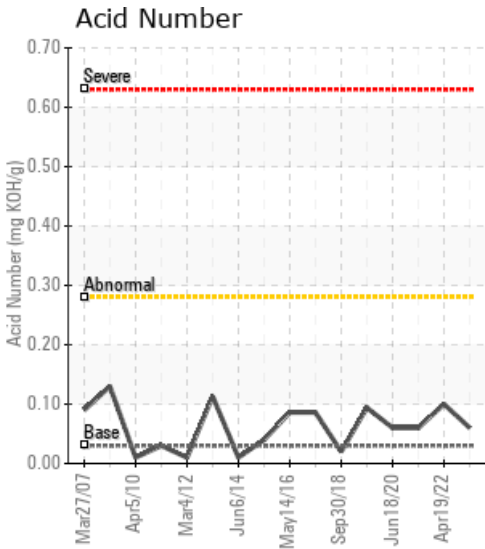
## MODIFIED ROOM HOT OIL SYSTEM

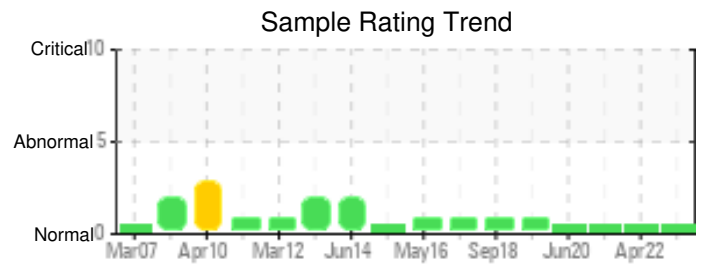
Customer: PTRHTF10069	System Information	Sample Information
CERTAINTEED - SAINT GOBAIN 3303 EAST 4TH AVENUE SHAKOPEE, MN 55379 US Attn: Alex Hanley Tel: E-Mail: Alex.J.Hanley@saint-gobain.com	System Volume: 4158 gal Bulk Operating Temp: 500F / 260C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02562405 Analyst: Neil Buchanan Sample Date: 06/05/23 Received Date: 06/06/23 Completed: 06/08/23 Neil Buchanan neil.buchanan@HFSinclair.com

Recommendation: Sample looks good and no action required. Resample next interval.

Comments:

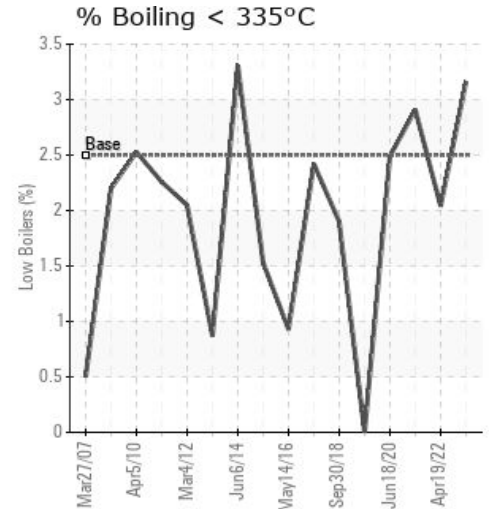
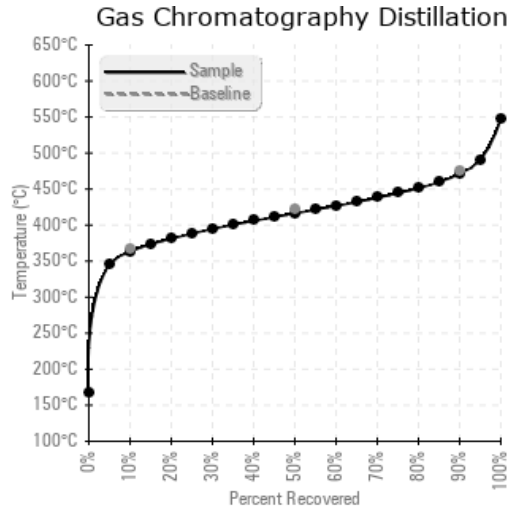
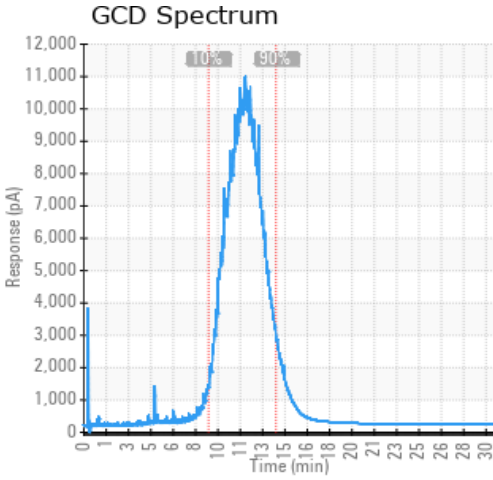
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/05/23	06/06/23	0.0y	FILTER BYPASS	399 / 204	19.0	25.4	0.06	0.045	686 / 363	781 / 416	880 / 471	3.16
04/19/22	05/10/22	0.0y		403 / 206	8.3	26.5	0.10	0.022	691 / 366	784 / 418	886 / 475	2.04
04/29/21	05/11/21	15.0y		396 / 202	12.5	24.2	0.06	0.038	684 / 362	771 / 411	885 / 474	2.91
06/18/20	06/29/20	0.0y	main system	417 / 214	14.5	24.4	0.06	0.103	689 / 365	781 / 416	881 / 471	2.49
09/24/19	10/21/19	0.0y	MAIN SYSTEM FLOW	396 / 202	19.1	26.0	0.094	0.093	695 / 368	778 / 415	868 / 464	0.00
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
06/05/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0
04/19/22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
04/29/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0
06/18/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0
09/24/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	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

04/19/22	Sample looks good. Resample next interval to monitor.
04/29/21	Sample results look good. Resample next interval to monitor.
06/18/20	Sample properties look good and it is free of contamination. Resample next interval to monitor.
09/24/19	The oil is holding steady with the properties remaining normal from sample to sample. Contamination by asphalt, water or other elements is insignificant or non-detectable. No actions needed at this time. Re-sample at next scheduled interval (GCD) 90% Distillation Point is marginally low.

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