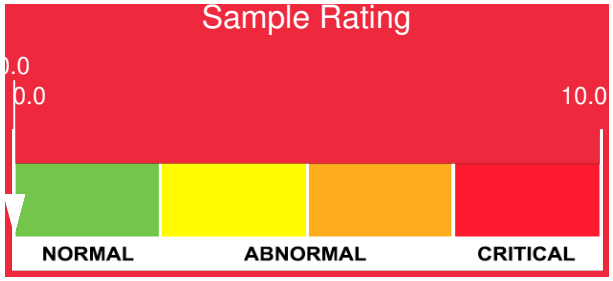
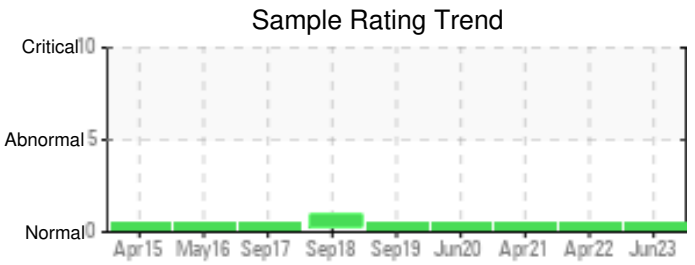




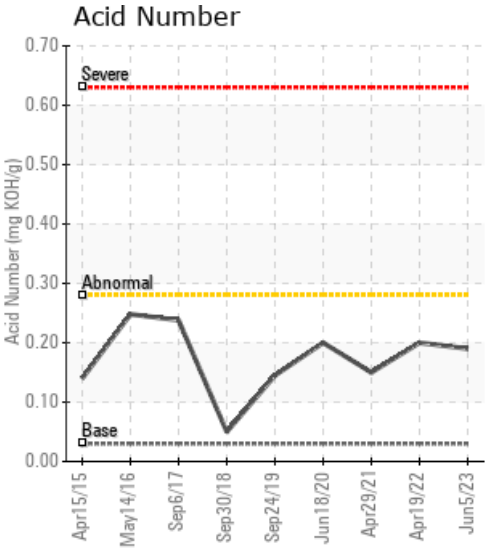
INCINERATOR SYSTEM

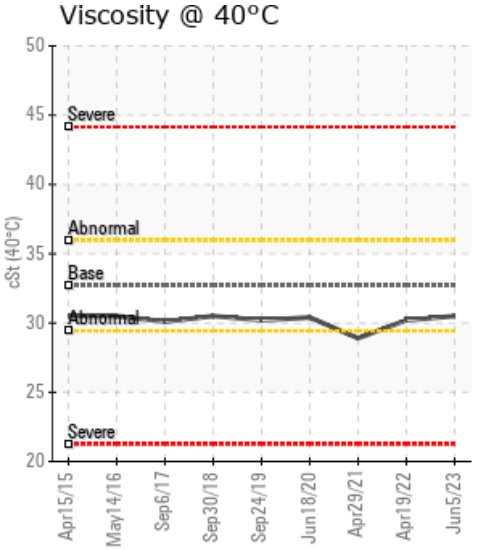
Customer: PTRHTF10069	System Information	Sample Information
CERTAINTEED - SAINT GOBAIN 3303 EAST 4TH AVENUE SHAKOPEE, MN 55379 US Attn: Alex Hanley Tel: E-Mail: Alex.J.Hanley@saint-gobain.com	System Volume: 3000 gal Bulk Operating Temp: 550F / 288C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: JOHN ZINK	Lab No: 02562406 Analyst: Neil Buchanan Sample Date: 06/05/23 Received Date: 06/06/23 Completed: 06/08/23 Neil Buchanan neil.buchanan@HFSinclair.com

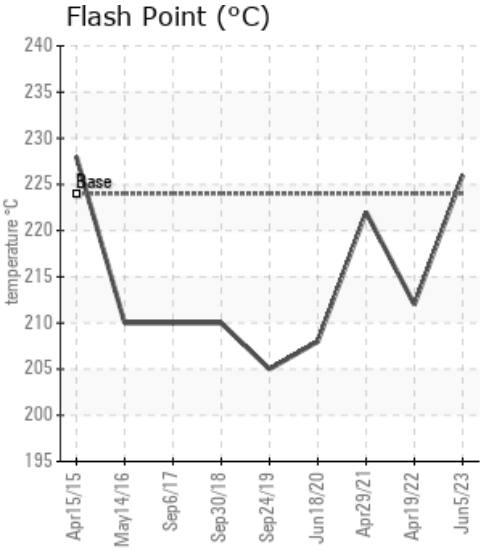
Recommendation: Sample looks good and no action required. Resample next interval.

Comments:

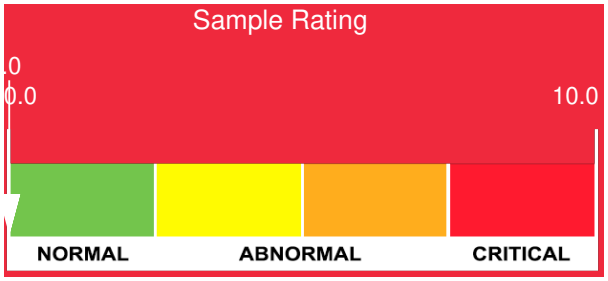
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
06/05/23	06/06/23	0.0y	FILTER BYPASS	439 / 226	9.2	30.5	0.19	0.083	699 / 371	798 / 425	898 / 481	2.18
04/19/22	05/10/22	0.0y		414 / 212	5.3	30.2	0.20	0.015	701 / 372	798 / 426	899 / 482	1.65
04/29/21	05/11/21	6.0y		432 / 222	14.3	28.9	0.15	0.069	694 / 368	785 / 419	897 / 480	2.31
06/18/20	06/29/20	0.0y	main system	406 / 208	14.9	30.4	0.20	0.108	703 / 373	799 / 426	897 / 481	1.64
09/24/19	10/21/19	0.0y	MAIN SYSTEM FLOW	401 / 205	21.0	30.2	0.145	0.242	705 / 374	786 / 419	873 / 467	0.46
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5

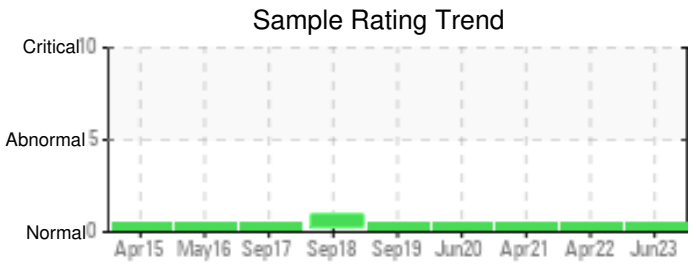






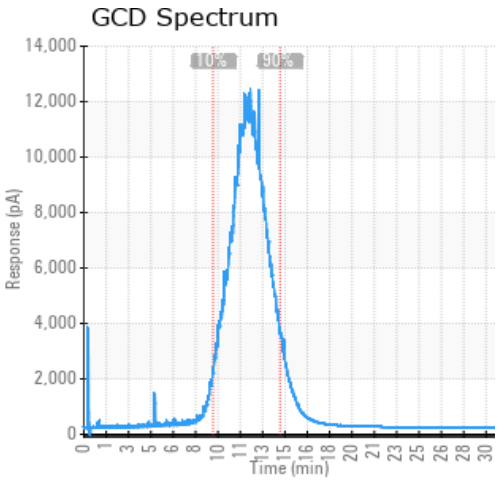
PETRO-CANADA LUBRICANTS

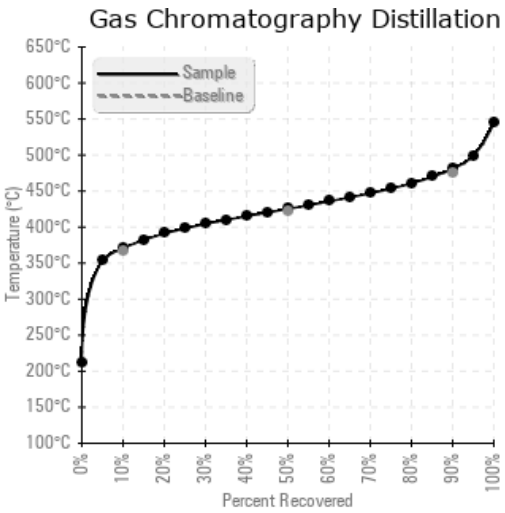


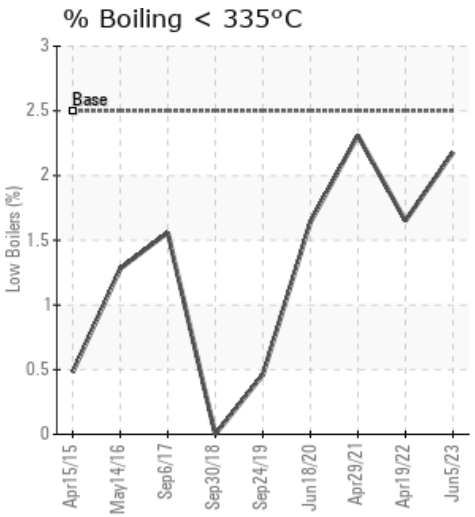


Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
06/05/23	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0
04/19/22	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	0
04/29/21	61	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	66	0
06/18/20	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	0
09/24/19	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	0
Baseline Data			0	0						0			0	0					0				270	

Elemental anaysis 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	Iron levels show a noticeable increase but the sample remains very dry and so not from rust. Sample looks good otherwise. Resample next interval to monitor.
06/18/20	Sample properties remain good and constant. An increase in Iron is noted on a dry system which can be from new parts installed. Resample next interval to monitor.
09/24/19	The oil is holding steady with the properties remaining normal. Contamination by asphalt, water or other elements is insignificant or non-detectable. No actions needed at this time. Re-sample at next scheduled interval

