

LINE 1 FILLER HEATER SYSTEM

Customer: PTRHTF10069

CERTAINTEED - SAINT GOBAIN 3303 EAST 4TH AVENUE SHAKOPEE, MN 55379 US

Attn: Alex Hanley

Tel:

E-Mail: Alex.J.Hanley@saint-gobain.com

System Information

System Volume: 5670 gal

Bulk Operating Temp: 428F / 220C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make:

Sample Information

Lab No: 02562407 Analyst: Neil Buchanan Sample Date: 06/05/23 Received Date: 06/06/23 Completed: 06/08/23

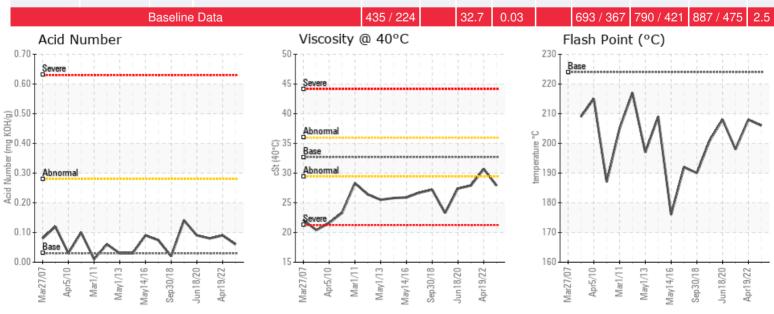
Neil Buchanan

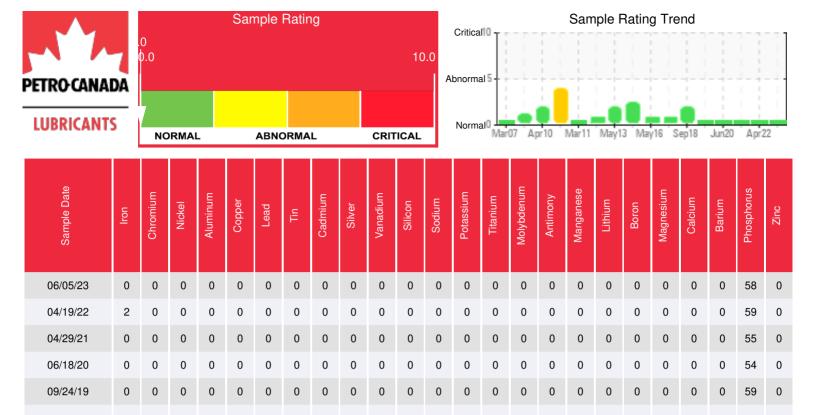
neil.buchanan@HFSinclair.com

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	403 / 206	0.00	27.9	0.06	0.043	692 / 367	794 / 424	895 / 479	3.02
04/19/22	05/10/22	0.0y		406 / 208	3.0	30.7	0.09	0.036	696 / 369	796 / 424	898 / 481	2.33
04/29/21	05/11/21	15.0y		388 / 198	10.1	27.9	0.08	0.041	685 / 363	782 / 416	904 / 484	3.54
06/18/20	06/29/20	0.0y	main system	406 / 208	12.1	27.4	0.09	0.104	694 / 368	795 / 424	895 / 480	2.91
09/24/19	10/21/19	0.0y	MAIN SYSTEM FLOW	394 / 201	9.0	23.3	0.141	0.074	699 / 371	798 / 426	898 / 481	1.86
Baseline Data			435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5	

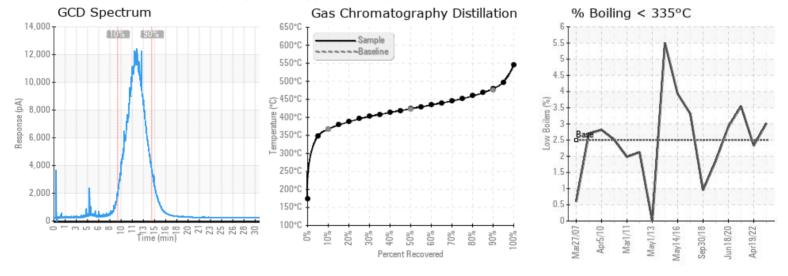




Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

0

Baseline Data



Historical Comments							
04/19/22	Sample looks good. Resample next interval to monitor.						
04/29/21	GCD graph, lowered IBP and slightly lowered flash point show the formation of some light boilers. Venting should be considered. Sample results look good otherwise. Resample next interval to monitor.						
06/18/20	Sample properties look good with a slight increase in viscosity more towards fluid typicals of 32.3 cSt, likely do to addition of fluid as Acid Number remains constant. Resample next interval to monitor.						
09/24/19	The oil is holding steady with the properties remaining normal. Although we are seeing a drop in viscosity, the flash point increased. let's just keep an eye on it until the next 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						

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.