

LINE 2 HOT OIL SYSTEM

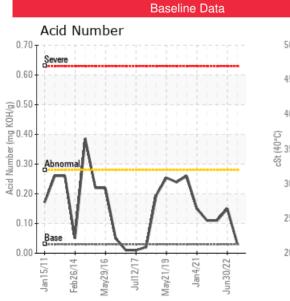
Customer: PTRHTF10059	System Information	Sample Information
CERTAINTEED - SAINT GOBAIN	System Volume: 1265 gal	Lab No: 02536546
11519 US RT 250 N	Bulk Operating Temp: 480F / 249C	Analyst: Yvette Trzcinski
MILAN, OH 44846 US	Heating Source:	Sample Date: 01/16/23
Attn: DAVE BLAKELY	Blanket:	Received Date: 01/30/23
Tel: (419)541-0843	Fluid: PETRO CANADA CALFLO AF	Completed: 02/06/23
E-Mail: dave.l.blakely@saint-gobain.com	Make: FIRST THERMOL	Yvette Trzcinski
		vvette.trzcinski@HFSinclair.com

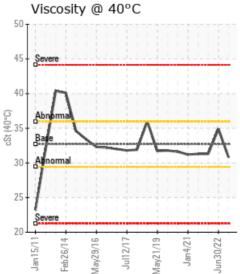
Recommendation: Viscosity has decreased by 10% but the acid number, GCD distillation temperatures, flash point and solids are all at acceptable levels. Resample in 9-12 months

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	%
01/16/23	01/30/23	0.0y	sample port	457 / 236	10.0	30.8	0.03	0.179	702 / 372	800 / 427	896 / 480	2.12
06/30/22	07/21/22	0.0y	sample port	430 / 221	2.5	34.9	0.15	0.065	705 / 374	800 / 427	900 / 482	1.22
01/12/22	02/18/22	0.0y	sample port	410 / 210	10.9	31.3	0.11	0.136	697 / 369	797 / 425	897 / 481	2.54
09/17/21	10/05/21	0.0y	SAMPLE PORT	439 / 226	18.8	31.3	0.11	0.114	704 / 373	799 / 426	899 / 482	1.17
01/04/21	01/19/21	0.0y	Sample Port	424 / 218	11.0	31.2	0.15	0.124	705 / 374	799 / 426	900 / 482	1.09

435 / 224

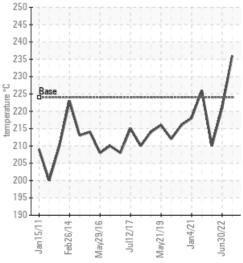




Flash Point (°C)

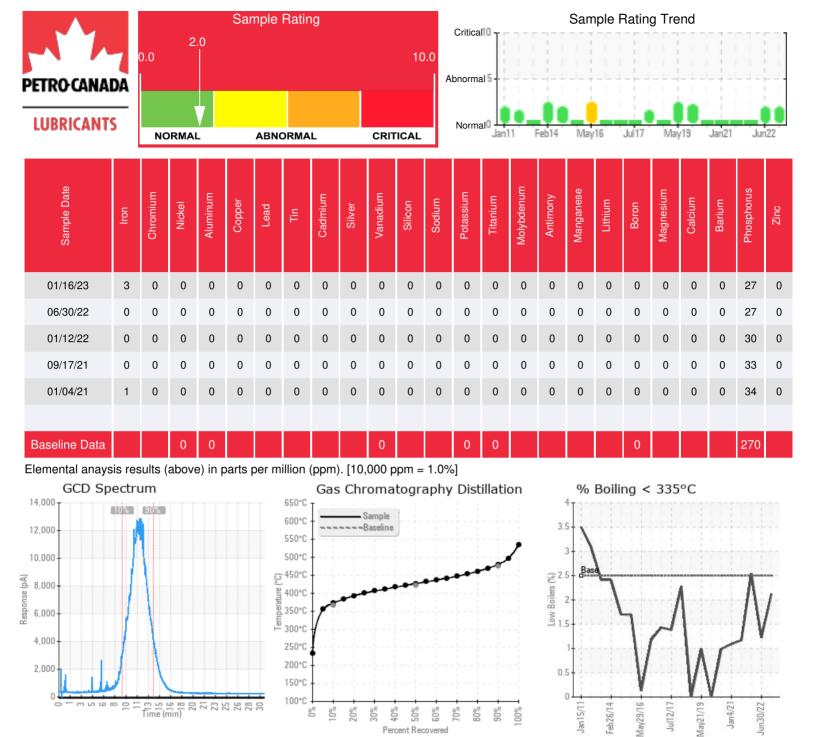
0.03

32.7



693/367 790/421 887/475

2.5





Jan 15/11

06/30/22	The viscosity and acid number have increased slightly from the last sample but the solids and flash point are all at very acceptable levels. The fluid is acceptable for continued service, re-sample at your next normal sample interval
01/12/22	There has been some slight degradation as can be seen by the slight reduction in flash point and increase in the insolubles but viscosity, flash point, GCD boiling points and solids (pentane insolubles) are within specification and acceptable for continued service. Resample in 6-12 months
09/17/21	All the sample specifications flash point, viscosity, acid number, solids and GCD results are within specifications sample fluid is acceptable for continued service. Resample in 12 months
01/04/21	The fluid does appear to have some degradation occurring, but the acid number has not increased from the last sample and the viscosity has remained consistent and oil specifications are all within acceptable limits. Resample at the next interval

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