

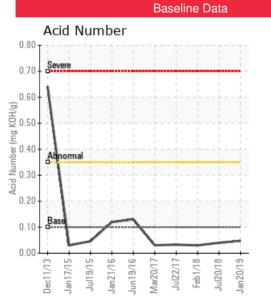
NEAR CONKLIN, AB Canada Attn: George Ball Tel: (587)233-1312 E-Mail: gball@atha.com System Volume: 8000 ltrLab No: 022Bulk Operating Temp: 212F / 100CAnalyst: BeHeating Source:Sample DatBlanket:Received DFluid: PETRO CANADA CALFLO LTCompleted:Make: TORNADO TECHNOLOGIESBenjamin L

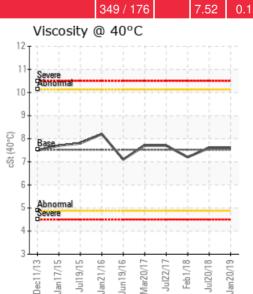
Lab No: 02266856 Analyst: Benjamin Latorre Sample Date: 01/20/19 Received Date: 02/08/19 Completed: 02/22/19 Benjamin Latorre benjamin.latorre@HFSinclair.com

Recommendation: Results normal. Resample at next interval.

Comments: Low wear level. Low contaminants level. (GCD) % < 335°C is marginally high.

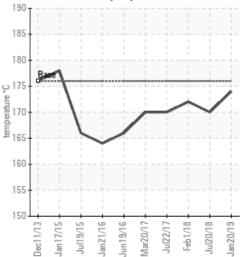
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
01/20/19	02/08/19	0.0y		345 / 174	8.5	7.6	0.047	0.013	592 / 311	625 / 330	717 / 381	54.09
07/20/18	08/10/18	3.0y	+/- 100M FROM HEATER	338 / 170	0.8	7.6	0.04	0.016	611 / 322	642 / 339	733 / 389	42.24
02/01/18	02/21/18	2.5y		342 / 172	4.8	7.2	0.03	0.005	611 / 322	643 / 340	735 / 391	39.54
07/22/17	08/08/17	0.0y		338 / 170	1.3	7.7	0.033	0.010	608 / 320	654 / 346	789 / 421	41.87
03/20/17	04/05/17	24.0y		338 / 170	0.00	7.7	0.03	0.042	611 / 322	645 / 340	737 / 392	38.61

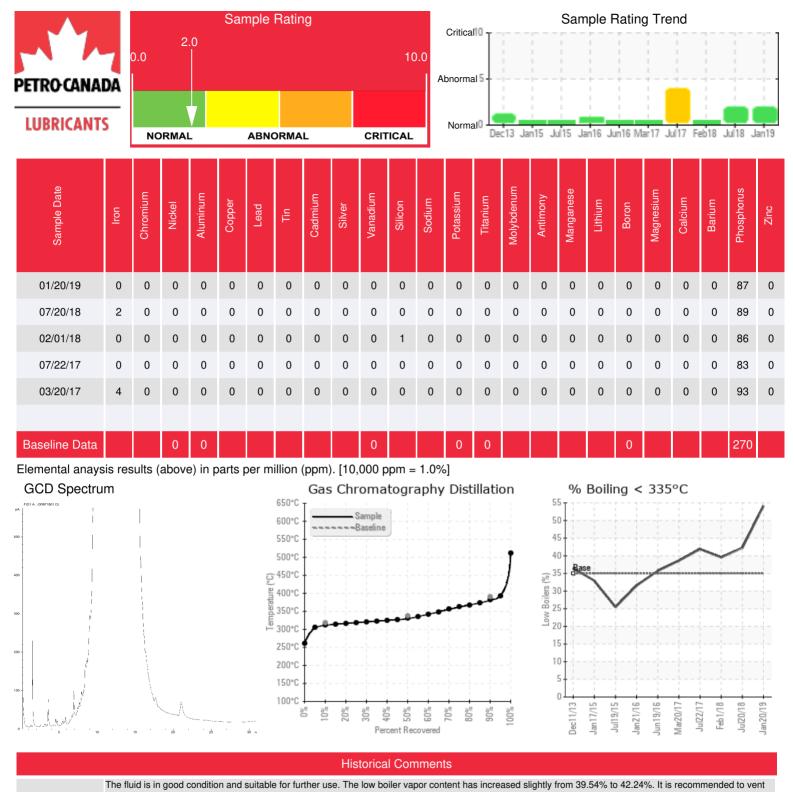




## Flash Point (°C)

604 / 318 640 / 338 734 / 390 35.0





07/20/18	these low boiler vapors to atmosphere on a regular basis. Please re-sample in 6 months. (GCD) % < 335°C is marginally high.	
02/01/18	The fluid is in good condition and suitable for further use. Low boiler vapor content is slightly high (GCD% <335C = 39.54%). For fresh Calflo LT this is 35%. This is a result of normal thermal degradation of the fluid and can be rectified by venting low boiler vapor to atmosphere. Please re-sample in 6 months.	
	The fluid is in a good condition and suitable for further use. The analysis does show indications of degradation. The % boil-off <335C is elevated and the 90%	

07/22/17 GCD temperature is high. It is recommended to vent off low boiler vapors to atmosphere on a regular basis. (once per month) Please re-sample in 12 months and list fluid service life when sending in the sample. (GCD) 90% Distillation Point is severely high. (GCD) % < 335°C is marginally high. The fluid is in good condition and suitable for further use. Please resample in 12 months.

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03/20/17