

LINE 2 HOT OIL SYSTEM

Customer: PTRHTF10059

CERTAINTEED - SAINT GOBAIN 11519 US RT 250 N

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System Information

System Volume: 1265 gal

Bulk Operating Temp: 480F / 249C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: FIRST THERMOL

Sample Information

Lab No: 02368434 Analyst: Yvette Trzcinski Sample Date: 07/28/20 Received Date: 08/05/20 Completed: 08/14/20

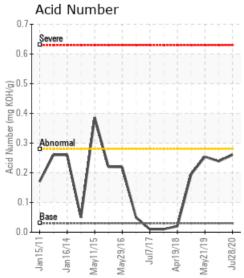
Yvette Trzcinski

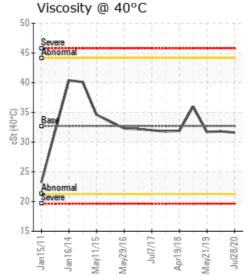
yvette.trzcinski@petrocanadalsp.com

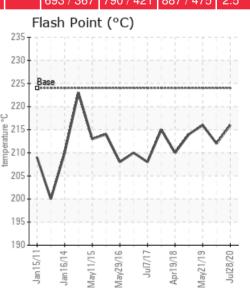
Recommendation: The oil looks very good the viscosity, acid number and flash point are all looking very good and similar to the sample at the beginning of the year - very low solids - resample at the next interval

Comments:

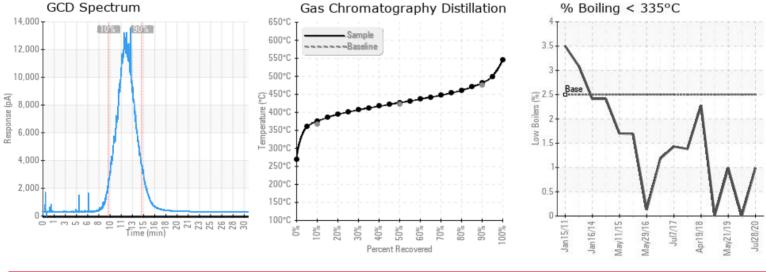
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	%06 QD9	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
07/28/20	08/05/20	24y	FILTER DRAIN	421 / 216	20.7	31.6	0.26	0.090	707 / 375	800 / 426	898 / 481	0.99
01/09/20	01/17/20	0y		414 / 212	5.9	31.8	0.239	0.130	707 / 375	787 / 420	881 / 471	0.00
05/21/19	05/31/19	0y		421 / 216	10.3	31.7	0.254	0.013	686 / 363	780 / 416	888 / 476	0.99
10/11/18	10/24/18	0y		417 / 214	14.3	36.0	0.195	0.207	694 / 368	786 / 419	880 / 471	0.00
04/19/18	04/27/18	0y	OFF OF HEADER	410 / 210	6.1	31.9	0.02	0.277	690 / 365	790 / 421	883 / 473	2.28
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5











	Historical Comments							
01/09/20	The condition of the oil is virtually unchanged since May 2019. all properties are normal. Keep up the good work and sample at next scheduled interval							
05/21/19	Everything looks good but we are noticing a steady increase in the acid number since last year which may mean the fluid is undergoing oxidation. This will result in a shortened fluid life. Oxidation is the fluid gets oxidized due to contact with oxygen from air. First, we suggest to check the nitrogen blanket to make sure oxygen is kept out of the expansion tank. Second, if there is oxygen in the extank and the fluid temperature in the expansion tank is hotter than 125F, this means the fluid will oxidize rapidly because the oxidation rate doubles for every 18F increase. Let's discuss what may be happening							
10/11/18	The Acid Number test jumped to 0.2. While this is still a very low value and the test itself carries a certain uncertainty when measuring low values, the jump from 0.02 to 0.2 is noticeable in that perhaps oxidation has begun. We will monitor this property and if the trend of increasing Acid Number continues we will recommend to take action. Resample in 6 months.							
04/19/18	The condition of the oil looks very good. Please continue to sample at the same 8-9 months frequency.							

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