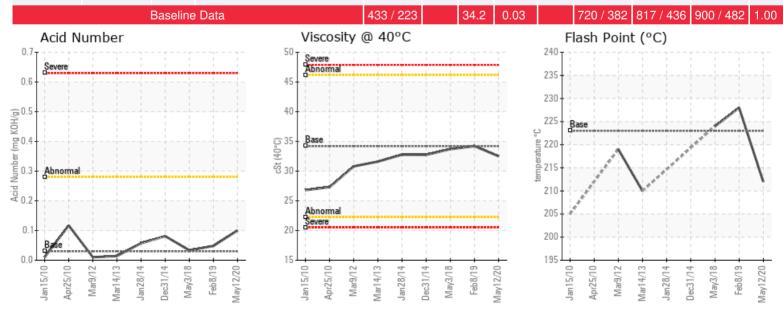


Customer: PTRHTF10094	System Information	Sample Information
CERTAINTEED CORPORATION -	System Volume: 0 gal	Lab No: 02363010
OXFORD	Bulk Operating Temp: 0F / -18C	Analyst: Gaston Arseneault
200 CERTAINTEED RD	Heating Source:	Sample Date: 05/12/20
OXFORD, NC 27565 USA	Blanket:	Received Date: 07/06/20
Attn: Seth Newton	Fluid: PETRO CANADA PETRO-THERM	Completed: 07/07/20
Tel: (919)693-1141	Make:	Gaston Arseneault
E-Mail: Seth.newton@saint-gobain.com		gaston.arseneault@petrocanadalsp.com

Recommendation: Despite the dark appearance, which is normal for hot oils, the sample shows nothing abnormal or marginal to act upon. Re-sample at next scheduled interval.

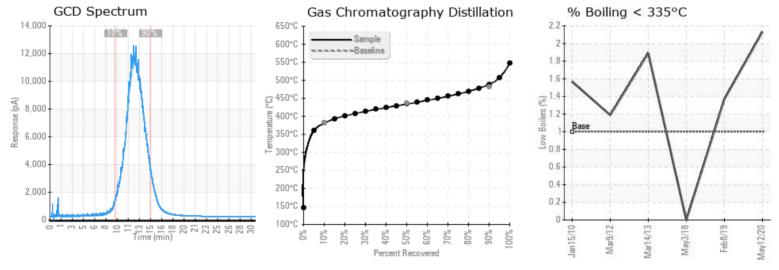
Comments:

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	%
05/12/20	07/06/20	5m		414 / 212	14.1	32.5	0.10	0.140	717 / 381	813 / 434	911 / 489	2.13
02/08/19	02/28/19	1m	AT HEATER	442 / 228	6.4	34.2	0.048	0.070	702 / 372	794 / 424	896 / 480	1.37
05/03/18	05/23/18	1m	MAIN SUPPLY LINE	435 / 224	15.7	33.7	0.033	0.017	706 / 375	785 / 418	878 / 470	0.00
12/31/14	01/05/15	0m				32.74	0.081					
01/28/14	01/31/14	0m				32.76	0.057					





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



**Historical Comments** 

02/08/19	This sample appears to be in decent condition. No vanadium and normal viscosity so no reason to believe that asphalt isleaking. Based on the results of this analysis no action seems to be needed at this time, unless feedback from your ownoperations and monitoring of your process warrants it.
05/03/18	Some of the test results from the previous samples are blank because they were tested as normal industrial oils. This sample appears to be in decent condition. No vanadium and normal viscosity so no reason to believe that asphalt is leaking. Based on the results of this analysis no action seems to be needed at this time, unless feedback from your own operations and monitoring of your process warrants it. (GCD) 90% Distillation Point is marginally low.
12/31/14	Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.
01/28/14	Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of oil is suitable for further service.

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