

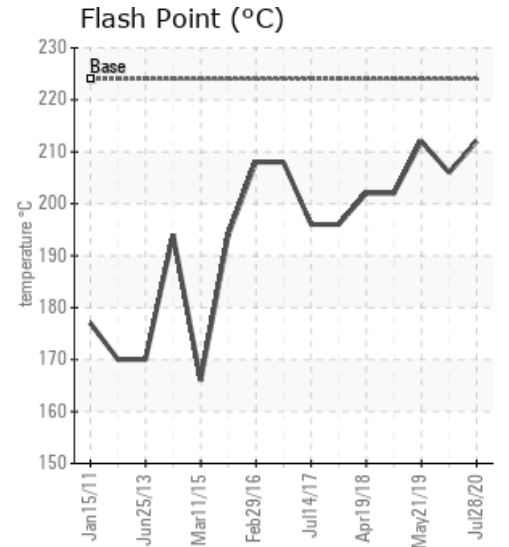
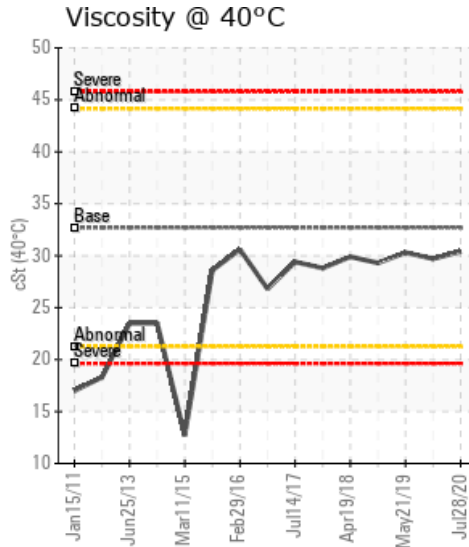
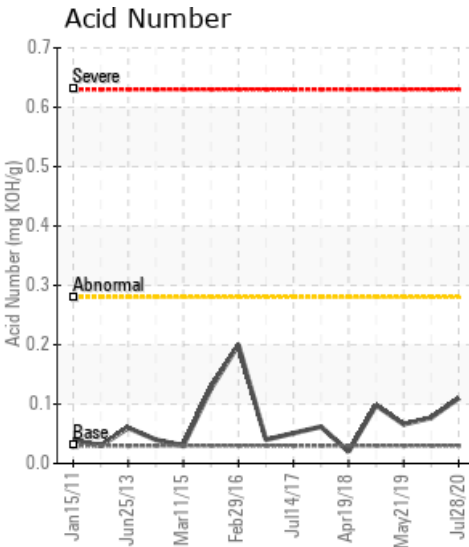
ECLIPSE HEATER

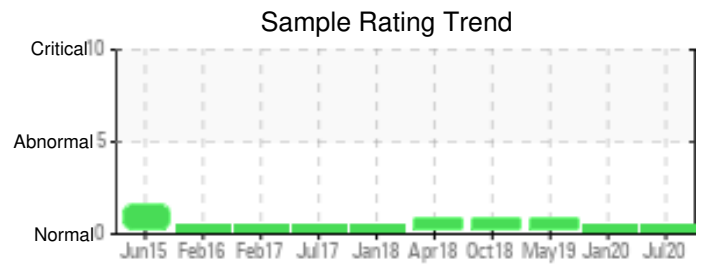
Customer: PTRHTF10059	System Information	Sample Information
CERTAINTEED - SAINT GOBAIN 11519 US RT 250 N MILAN, OH 44846 USA Attn: DAVE BLAKELY Tel: (419)541-0843 E-Mail: dave.l.blakely@saint-gobain.com	System Volume: 605 gal Bulk Operating Temp: 525F / 274C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: FIRST THERMO	Lab No: 02368435 Analyst: Yvette Trzcinski Sample Date: 07/28/20 Received Date: 08/05/20 Completed: 08/14/20 Yvette Trzcinski yvette.trzcinski@petrocanadalsp.com

Recommendation: Viscosity, acid number, flash point and insolubles are all low and within specifications - Low boiler levels low and staying constant - resample at next sampling interval

Comments:

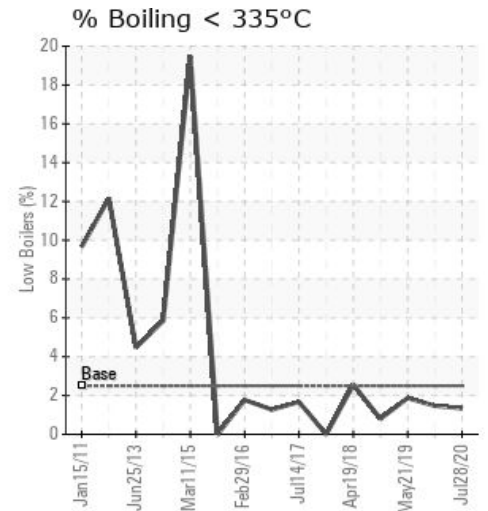
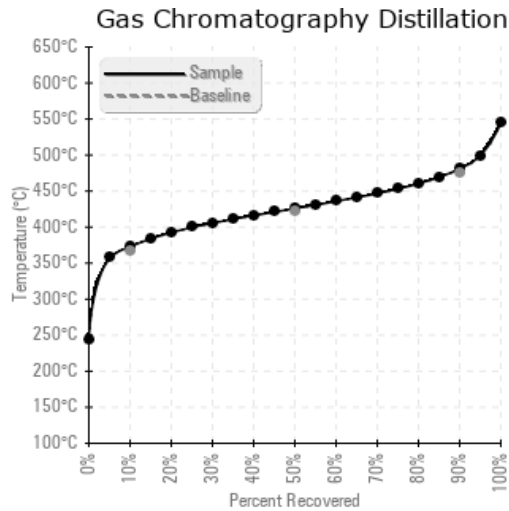
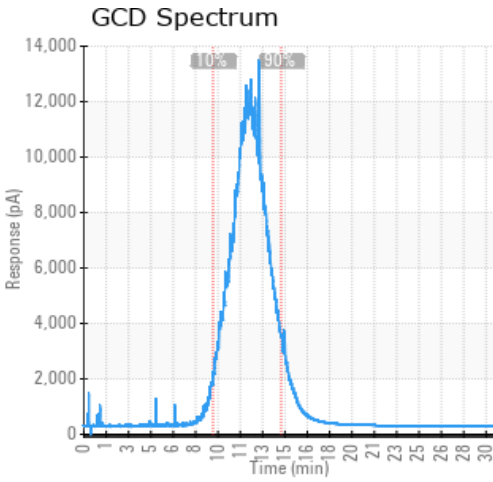
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/28/20	08/05/20	5y	FILTER DRAIN	414 / 212	13.1	30.4	0.11	0.028	703 / 373	799 / 426	898 / 481	1.34
01/09/20	01/17/20	3y		403 / 206	4.9	29.7	0.077	0.054	700 / 371	792 / 422	889 / 476	1.47
05/21/19	05/31/19	0y		414 / 212	10.2	30.3	0.066	0.016	690 / 366	791 / 422	896 / 480	1.87
10/11/18	10/24/18	0y		396 / 202	17.5	29.3	0.098	0.047	697 / 370	794 / 423	883 / 473	0.80
04/19/18	04/27/18	0y	HEADER	396 / 202	4.2	29.9	0.02	0.061	692 / 367	802 / 428	907 / 486	2.55
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
07/28/20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	76	0
01/09/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0
05/21/19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0
10/11/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	0
04/19/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	0
Baseline Data			0	0						0			0	0					0				270	

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



Historical Comments

01/09/20	The condition of the oil is virtually unchanged since May 2019. all properties are normal and looking good. Keep up the good work and sample at next scheduled interval
05/21/19	Everything looks good, the fluid condition is great and degradation and contamination are not detected.
10/11/18	The fluid appears to be in excellent condition after 2.5 years, with minimal discoloration. Flash point remains strong. All properties tested are normal and well within acceptable limits. Acid Number (oxidation), moisture and overall contaminants are barely detectable. Pls re-sample at next scheduled interval.
04/19/18	The fluid appears to be in excellent condition after 2 years, with minimal discoloration. Flash point remains strong. All properties tested are normal and well within acceptable limits. Moisture and overall contaminants are barely detectable. Pls re-sample at next scheduled interval. (GCD) 90% Distillation Point is marginally high.

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