

## **HOT OIL HEATER #3**

## Customer: PTRHTF10070

CERTAINTEED - SAINT GOBAIN 6350 NW FRONT AVE PORTLAND, OR 97210 USA

Attn: Larry Larson

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System Information

System Volume: 1200 gal

Bulk Operating Temp: 525F / 274C

**Heating Source:** 

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make:

Sample Information

Lab No: 02148382

Analyst: Gaston Arseneault Sample Date: 05/15/17 Received Date: 05/29/17

Completed: 08/04/17

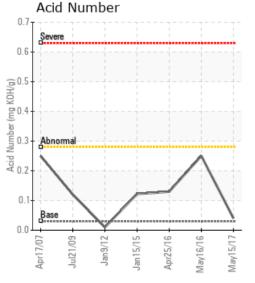
To discuss this report contact Gaston

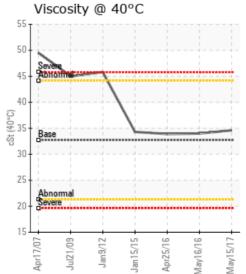
Arseneault at 973-986-6503

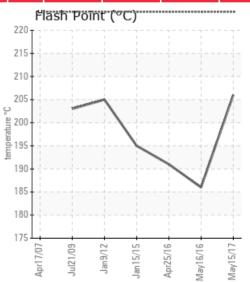
Recommendation: There is over 2% water in the sample and a high amount of solids. Everything else looks fine. We recommend to submit another sample just to make sure this is just an anomaly caused by not letting enough oil flow through the pipe and valve before collecting a representative sample.

Comments: Water contamination levels are severely high. Water contamination levels are severely high. ppm Water contamination levels are severely high. Pentane Insolubles levels are severely high. (GCD) 90% Distillation Point is severely high.

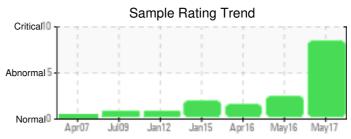






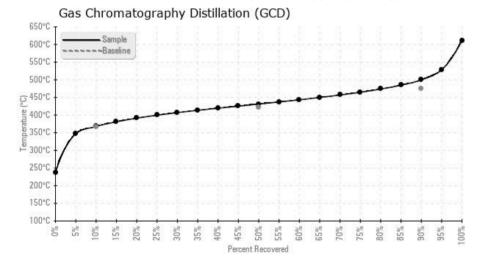


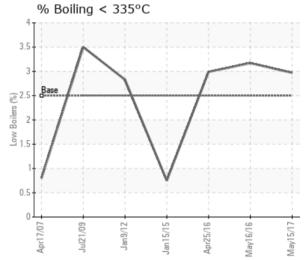




Sample Date	lron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
05/15/17	8	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	18	0
05/16/16	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
04/25/16	13	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	16	0
01/15/15	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	12	0
01/09/12	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	5	0	1	5
07/21/09	3	0	0	0	0	0	0	0	0	0	2	2		0	0		0			0	0	0	0	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								
05/16/16	The Acid Number rose a little bit but everything else is consistent with the last sampling. Please re-sample at next scheduled interval. (GCD) 90% Distillation Point is marginally high. COC Flash Point is marginally low.							
04/25/16	*** NOTE Fluid changed to Petro-Canada CALFLO AF as per customer instruction. *** Understand new samples were taken and sent for testing. Report will be issued when those samples are completed. COC Flash Point is abnormally low. (GCD) 90% Distillation Point is abnormally low.							
01/15/15	(GCD) 90% Distillation Point is severely high. Check heating system for proper operation. Consider adding a small amount of new oil to bring (GCD) 90% Distillation Point down. (GCD) 90% Distillation Point is severely high.							
01/09/12	The oil seems to carry a certain amount of insoluble solids but otherwise look normal. The flash point is somewhat low compared to fresh Thermia C. We suggest to re-sample at least once per year.							
07/21/09								

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