

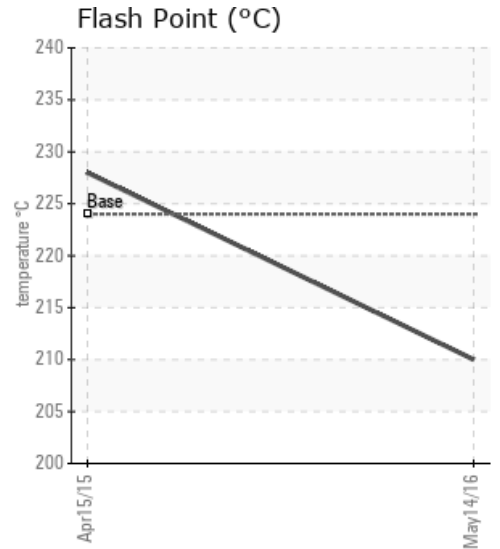
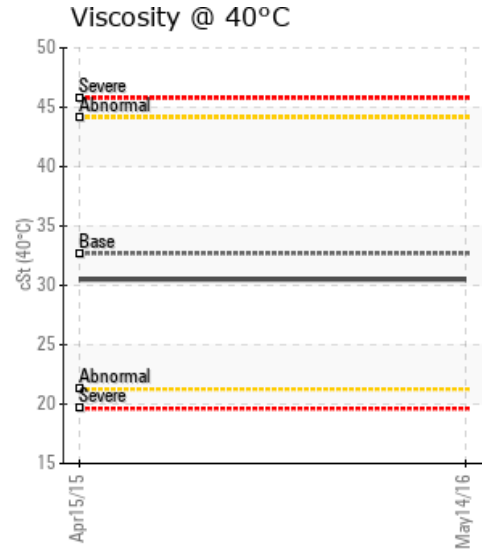
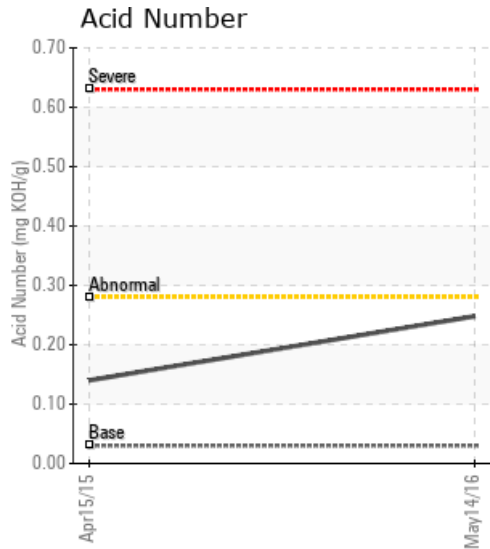
## INCINERATOR SYSTEM

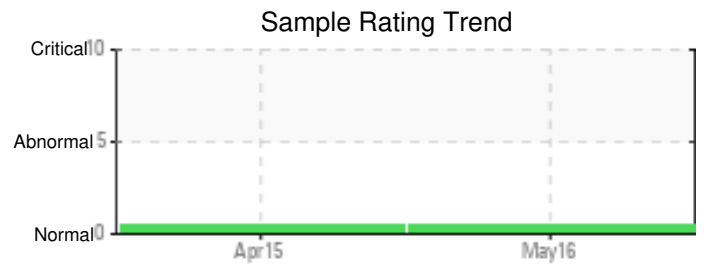
Customer: PTRHTF10069	System Information	Sample Information
CERTAINEED - SAINT GOBAIN 3303 EAST 4TH AVENUE SHAKOPEE, MN 55379 USA Attn: Patrick Wallace Tel: E-Mail: patrick.wallace@saint-gobain.com	System Volume: 3000 gal Bulk Operating Temp: 550F / 288C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make: JOHN ZINK	Lab No: 02073865 Analyst: Neil Buchanan Sample Date: 05/14/16 Received Date: 05/24/16 Completed: 05/27/16 Neil Buchanan neil.buchanan@hollyfrontier.com

Recommendation: Sample looks good and fit for further service. Resample next interval to monitor.

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	%
05/14/16	05/24/16	0.0y	MAIN SYSTEM FLOW	410 / 210	5.6	30.5	0.248	0.042	699 / 371	796 / 424	882 / 472	1.28
04/15/15	05/07/15	0.0y	MN FLOW/MN SYS PUMP	442 / 228	5.0	30.5	0.14	0.305	703 / 373	799 / 426	896 / 480	0.48
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5

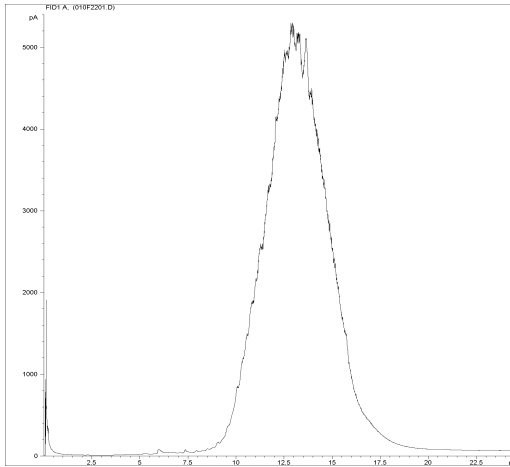




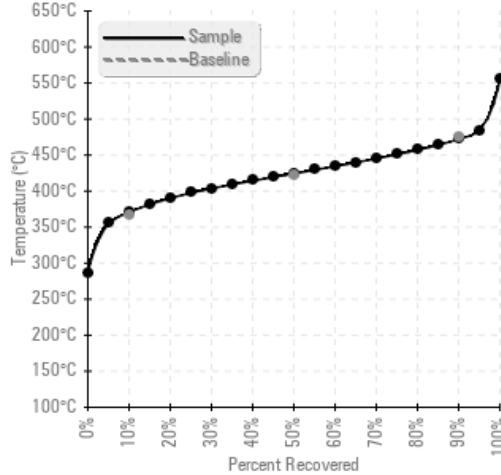
Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
05/14/16	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0
04/15/15	19	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	73	0
Baseline Data			0	0						0		0	0					0					270	

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

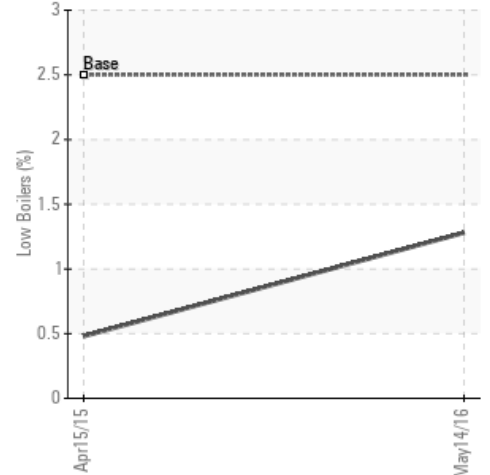
GCD Spectrum



Gas Chromatography Distillation



% Boiling < 335°C



Historical Comments

04/15/15	Pentane insoluble level is at 0.305% and higher than a typical used oil sample of <0.05%. Continue to monitor and the condemning limit is >0.5%. All other properties are within normal ranges.

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