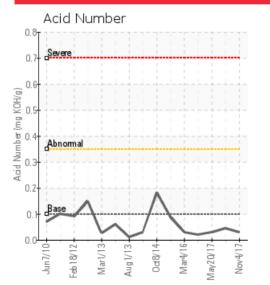


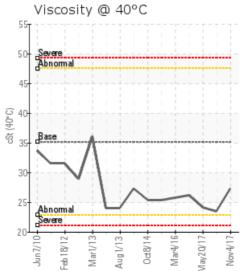
Customer: PTRHTF10043	System Information	Sample Information			
MALARKY ROOFING PRODUCTS	System Volume: 1200 gal	Lab No: 02183587			
3131 N. COLUMBIA BLVD	Bulk Operating Temp: 620F / 327C	Analyst: Ron LeBlanc			
PORTLAND, OR 97217 USA	Heating Source:	Sample Date: 11/04/17			
Attn: Jeff Tonn	Blanket:	Received Date: 11/22/17			
Tel:	Fluid: PETRO CANADA CALFLO HTF	Completed: 11/28/17			
E-Mail: jtonn@malarkeyroofing.com	Make: AMERICAN HEATING	To discuss this report contact Ron			
		LeBlanc at (541)967-6499			

Recommendation: Adding new oil could bring flash point up significantly. Check for heating consistency.

Comments: COC Flash Point is severely low. (GCD) 10% Distillation Point is abnormally low. (GCD) % < 335°C is marginally high.

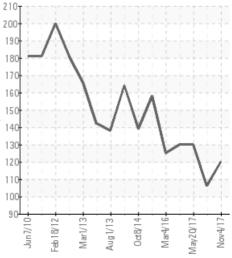
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
11/04/17	11/22/17	0m		248 / 120	9.1	27.3	0.03	0.031	632 / 333	796 / 424	893 / 478	9.74
10/04/17	10/17/17	0m		223 / 106	15.1	23.5	0.044	0.036	652 / 344	798 / 426	911 / 488	8.37
05/20/17	06/05/17	0m	NORTH HEAT EXCHANGER	266 / 130	29.5	24.1	0.028	0.061	666 / 352	802 / 428	915 / 490	7.16
09/22/16	10/04/16	0m	NORTH HEAT EXCHANGER	266 / 130	11.2	26.2	0.02	0.040	625 / 330	785 / 419	886 / 475	10.14
03/04/16	03/16/16	0m	NORTH HEAT EXCHANGER	257 / 125	6.7	25.8	0.03	0.051	681 / 361	805 / 430	918 / 492	5.56
09/24/15	10/13/15	0m	BY NORTH EXCHANGER	316 / 158	9.5	25.4	0.088	0.095	657 / 347	796 / 425	904 / 485	7.95
Baseline Data			448 / 231		35.20	.1		712/378	810 / 432	910 / 488	1.75	

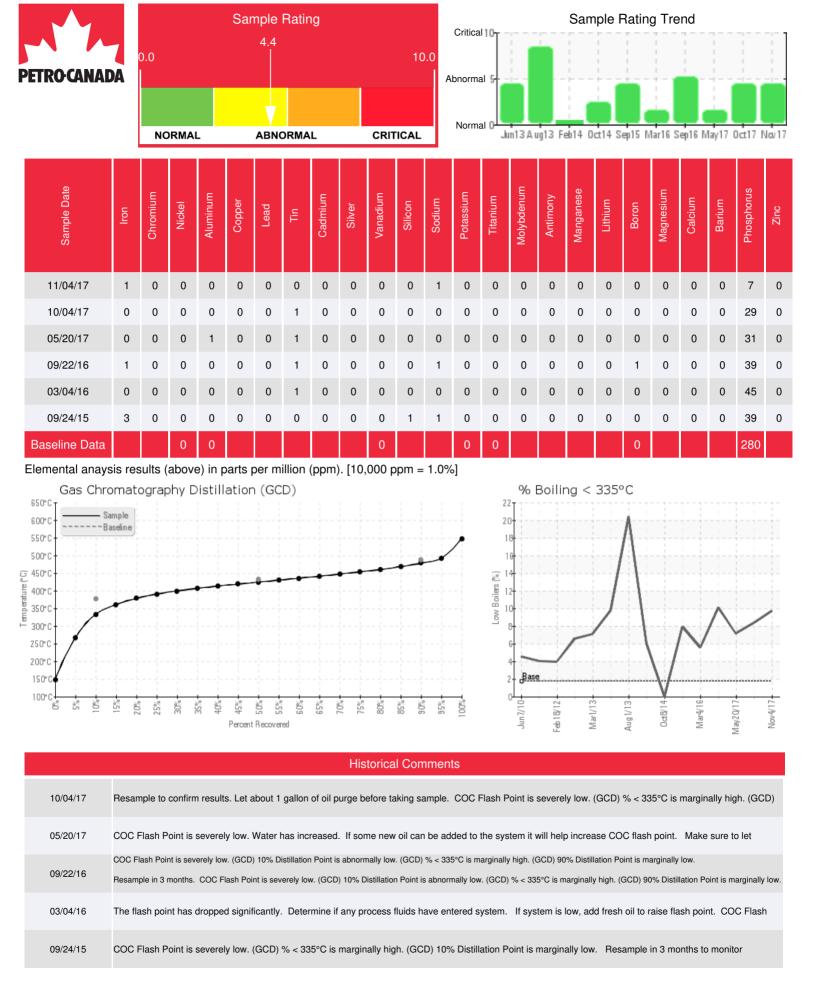






temperature °C





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