

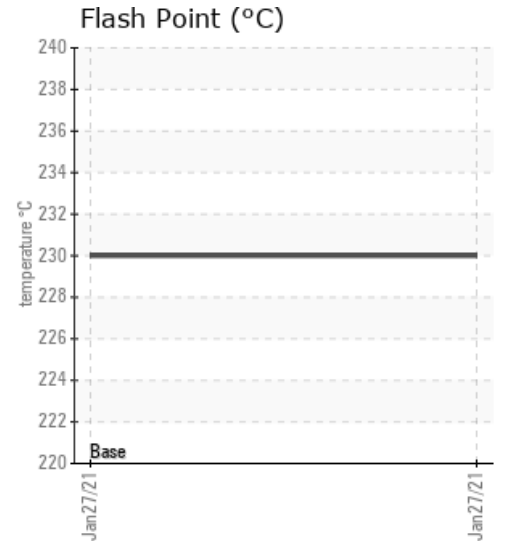
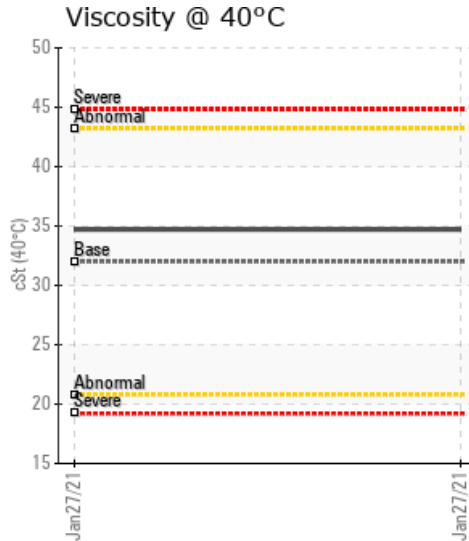
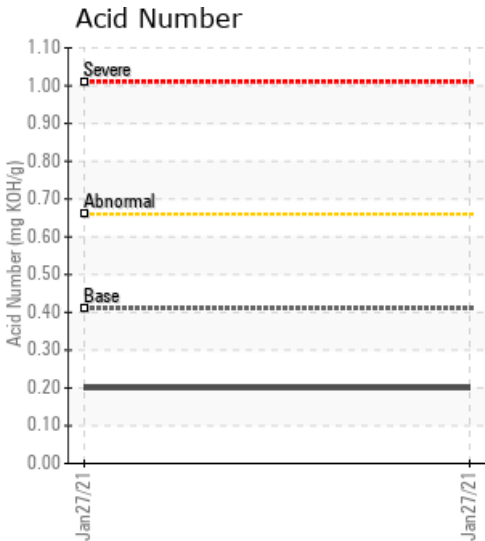
[CRAFCO INC] HEATER #2 NORTH

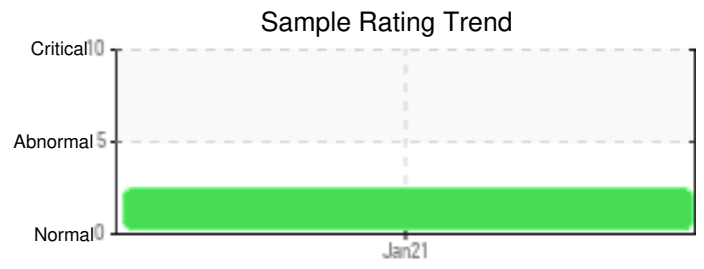
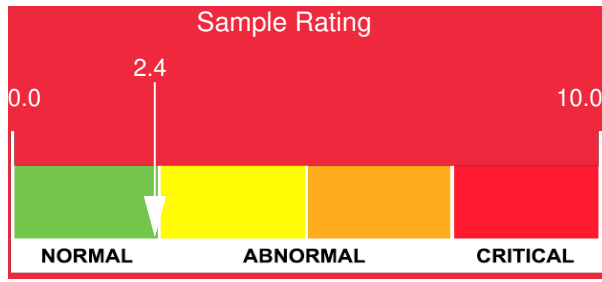
Customer: PTRHTF10243	System Information	Sample Information
Allied Oil & Supply 4491 8th Avenue Marion, IA 52302 USA Attn: Thomas Cruise Tel: E-Mail: tcruise@allied-oil.com	System Volume: 12000 gal Bulk Operating Temp: 500F / 260C Heating Source: Blanket: Fluid: HEAT TRANSFER FLUID ISO 32 Make: CEI SYSTEM	Lab No: 02403465 Analyst: Neil Buchanan Sample Date: 01/27/21 Received Date: 02/11/21 Completed: 03/04/21 Neil Buchanan neil.buchanan@hollyfrontier.com

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

Comments:

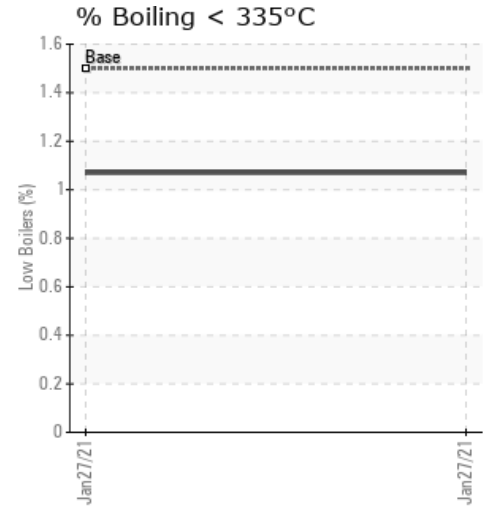
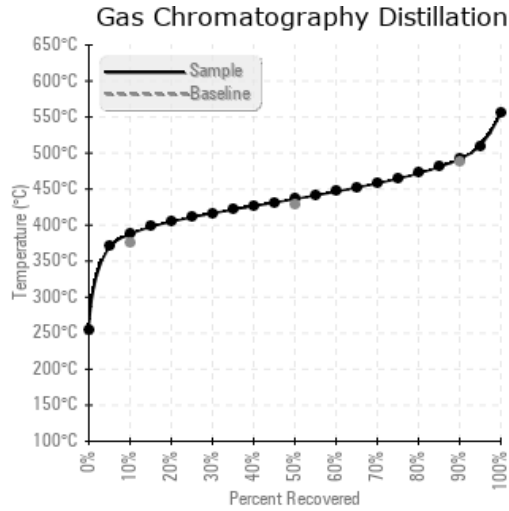
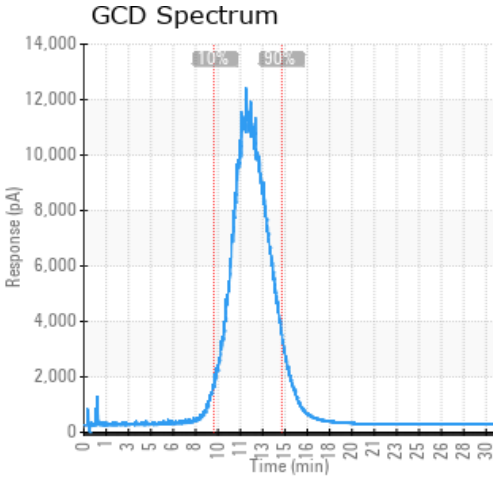
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/27/21	02/11/21	18.0y	Dekalb,IL return lin	446 / 230	2.9	34.7	0.20	0.086	729 / 387	817 / 436	917 / 492	1.07
Baseline Data				410 / 210		32	0.41		707 / 375	802 / 428	910 / 488	1.5





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
01/27/21	3	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	12	0
Baseline Data			0	0						0			0	0					5				250	

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



Historical Comments

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.