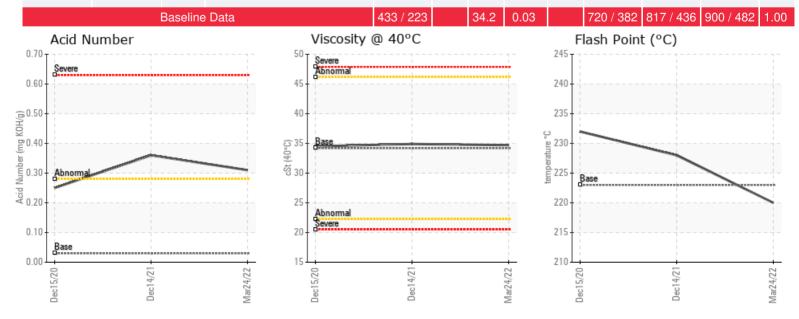


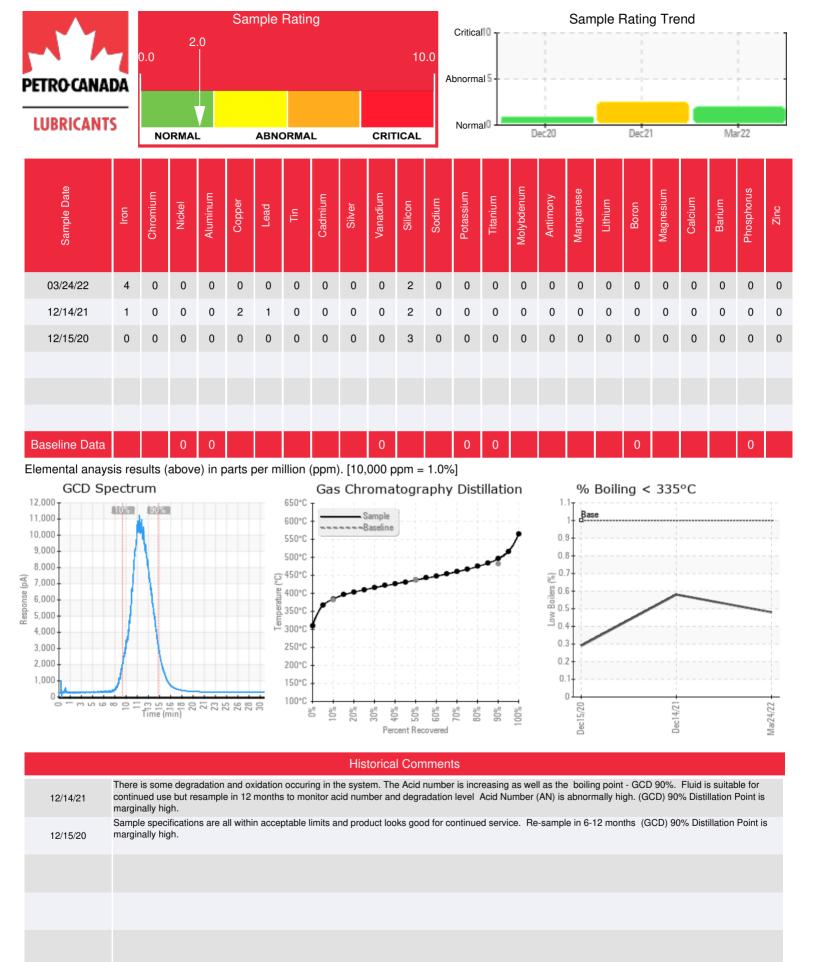
Customer: PTRHTF30107 System Information Sample Information **D-CONSTRUCTION** System Volume: 400 g Lab No: 02480442 16805 QUARRY RD Bulk Operating Temp: 350F / 177C Analyst: Joe Goecke MORRIS, IL 60450 USA Heating Source: Sample Date: 03/24/22 Attn: Chris Lenzie Blanket: Received Date: 03/30/22 Fluid: PETRO CANADA PETRO-THERM Tel: (815)405-6831 Completed: 04/04/22 Make: HEAT TECH E-Mail: clenzie@sandenoinc.com Joe Goecke Joe.goecke@hollyfrontier.com

Recommendation: Acid number is slightly high but all other parameters look good. Continue to use an resample at next scheduled interval.

Comments: Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point 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	%
03/24/22	03/30/22	3.0y	RETURN LINE	428 / 220	28.9	34.7	0.31	0.109	723 / 384	818 / 436	923 / 495	0.48
12/14/21	12/30/21	4.0y	return, before pump	442 / 228	19.4	34.9	0.36	0.263	720 / 382	814 / 435	921 / 494	0.58
12/15/20	12/24/20	2.0y	Return	450 / 232	18.8	34.5	0.25	0.082	723 / 384	816 / 435	922 / 494	0.29





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