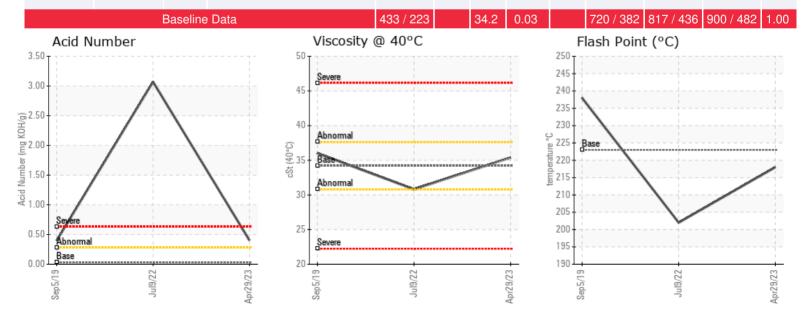


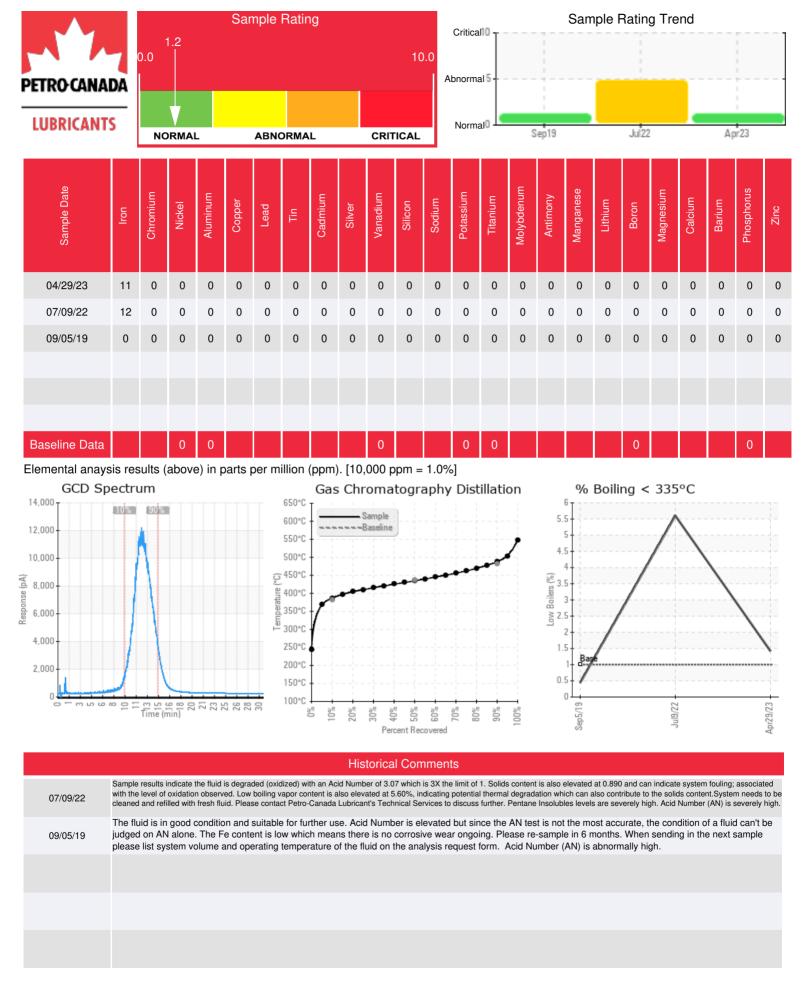
Attn: Quadra Samples Tel: E-Mail: guadra samples@guadra.ca Bulk Operating Temp: 345F / 174C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: PROPAK Lab No: 02558461 Analyst: Clinton Buhler Sample Date: 04/29/23 Received Date: 05/18/23 Completed: 05/30/23 Clinton Buhler Clinton.Buhler@HFSinclair.com

Recommendation: Sample results indicate the fluid is in suitable condition for continued service and is much improved from the 2022 sample, suggesting that the fluid must have been changed since that time. Acid Number is at 0.4, indicating some fluid oxidation. Please ensure blanket gas is operational and re-sample within 12 months.

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	%
04/29/23	05/18/23	48.0m		424 / 218	21.8	35.4	0.40	0.134	727 / 386	815 / 435	910 / 488	1.42
07/09/22	07/25/22	3.0m		396 / 202	111.8	30.8	3.07	0.890	679 / 360	799 / 426	901 / 483	5.60
09/05/19	09/13/19	5.0m	LEVEL CONTROL PORT	460 / 238	0.00	36.0	0.397	0.049	721 / 383	792 / 422	884 / 473	0.44





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