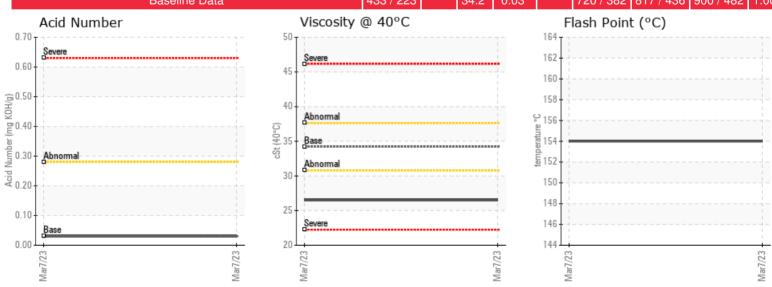


Customer: PTRHTF20204	System Information	Sample Information
ADVANTAGE OIL AND GAS	System Volume: 0 ltr	Lab No: 02547834
	Bulk Operating Temp: 410F / 210C	Analyst: Clinton Buhler
HYTHE, AB CA	Heating Source:	Sample Date: 03/07/23
Attn: Travis Old	Blanket:	Received Date: 03/27/23
Tel: (780)518-1047	Fluid: PETRO CANADA PETRO-THERM	Completed: 04/12/23
E-Mail: told@advantageog.com	Make: PETROTECH	Clinton Buhler
		Clinton.Buhler@HFSinclair.com

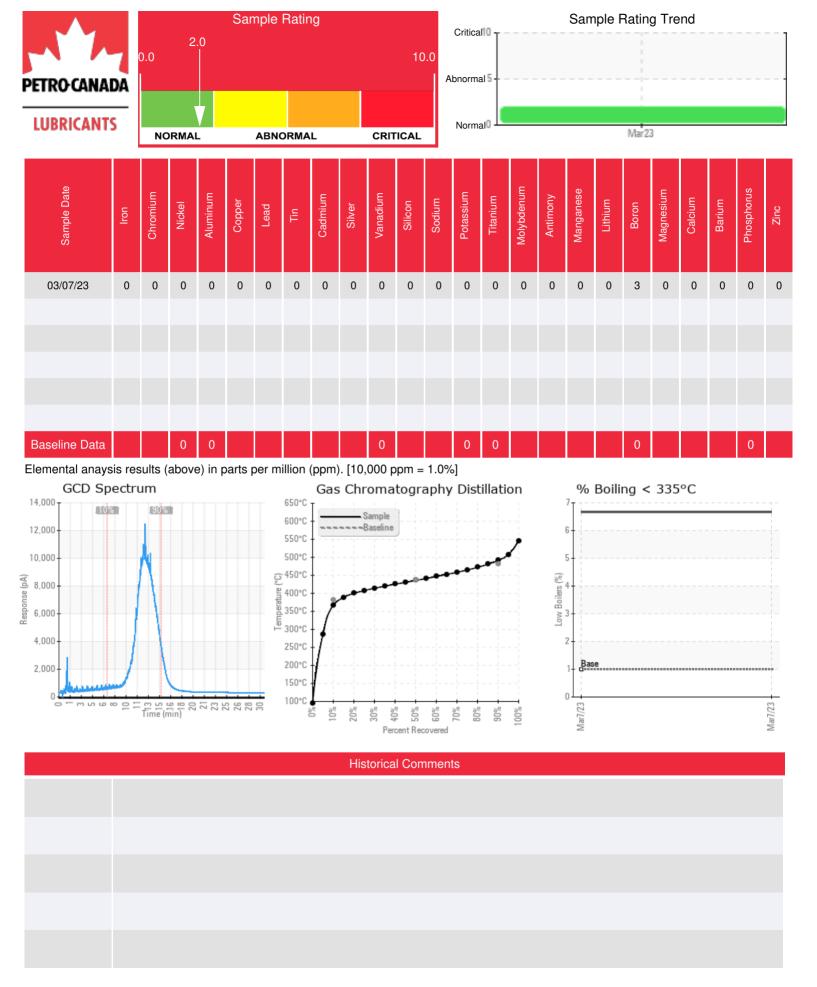
Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. However, please note reduced fluid viscosity and flash point as well as elevated low boiler vapor content (%<335C) of 6.67%. This can be associated with either thermal degradation, contamination with a lower viscosity process fluid such as condensate or dilution from high pressure gas blanket. Please confirm if the listed 200 kpa blanket gas is required for pump NPSH; ideally a blanket of 2-3 psi is ideal. Please vent system of low boiling vapors and then re-sample in 6 months.

Comments: COC Flash Point is severely low. Visc @ 40°C is abnormally low.





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