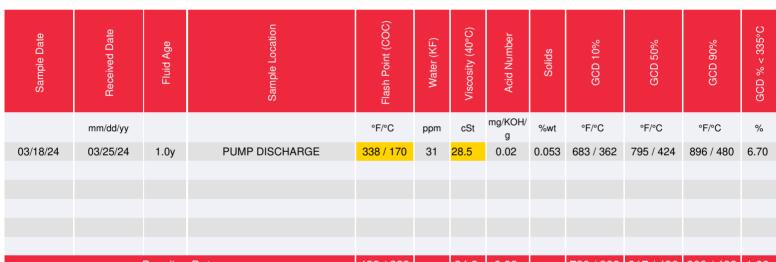
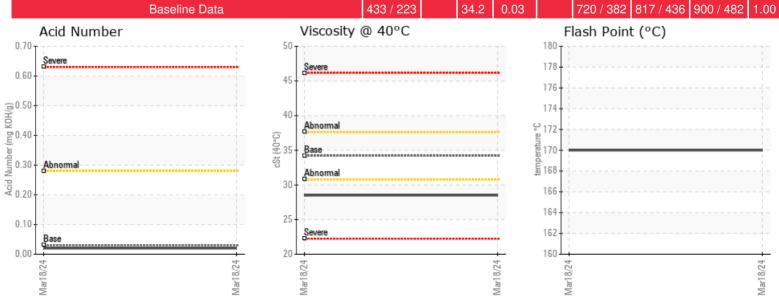


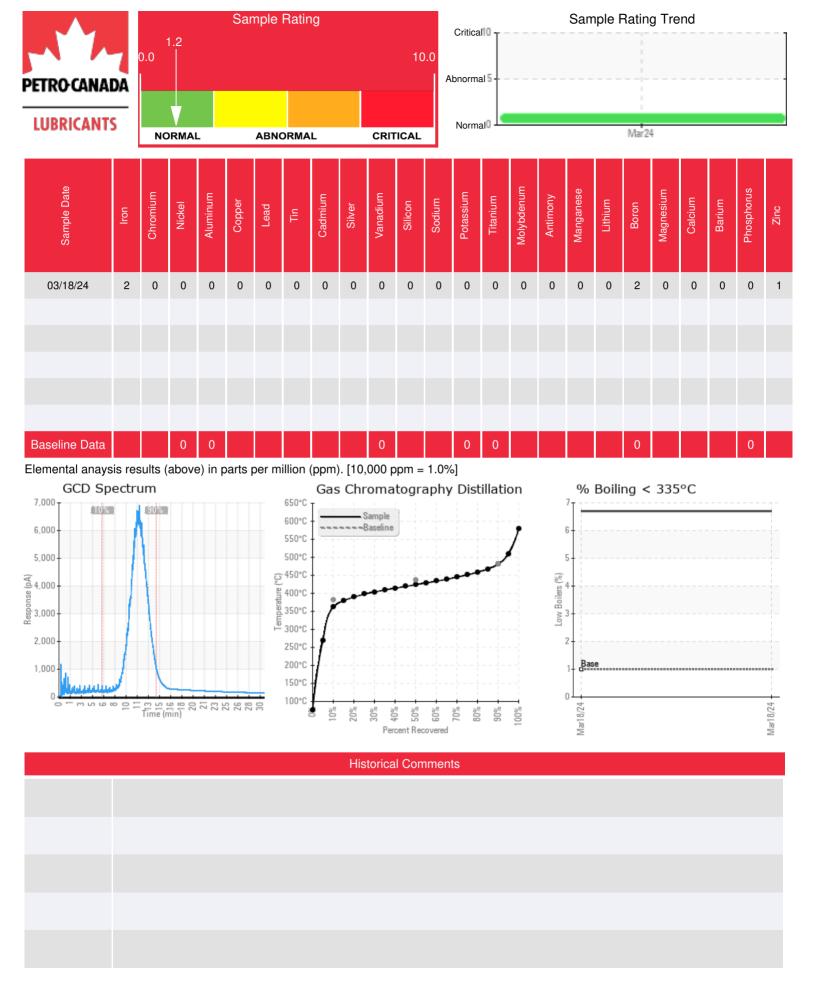
Customer: PTRHTF20204	System Information	Sample Information
ADVANTAGE OIL AND GAS	System Volume: 20000 ltr	Lab No: 02624514
	Bulk Operating Temp: 419F / 215C	Analyst: Clinton Buhler
HYTHE, AB CA	Heating Source:	Sample Date: 03/18/24
Attn: Sovke Rathamore	Blanket:	Received Date: 03/25/24
Tel: (780)518-9978	Fluid: PETRO CANADA PETRO-THERM	Completed: 04/02/24
E-Mail: srathamore@advantageog.com	Make:	Clinton Buhler
		Clinton.Buhler@HFSinclair.com

Recommendation: Sample results show that the fluid viscosity, flash point and 10% GCD temperature are lower than expected for fresh Petro-Therm. That, along with 6.7% low boiling vapor content suggest that there has either been some cross contamination with process fluids or the expansion tank blanket gas pressure is set too high- both of which can impact these parameters. If possible, please lower blanket gas pressure (2-3 psi is ideal if pump NPSH allows). Vent expansion tank of low boiling vapors on a regular basis and then re-sample in 3 months time but only re-sample after venting has been performed and blanket gas pressure has been reduced.

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







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