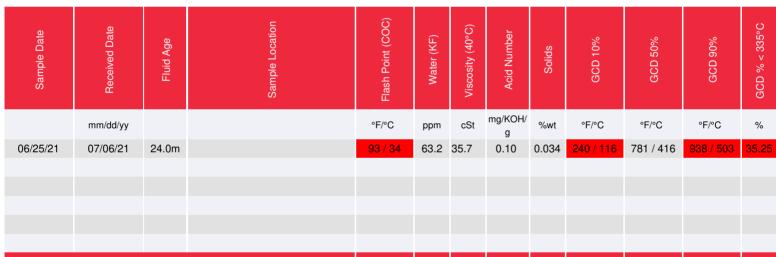


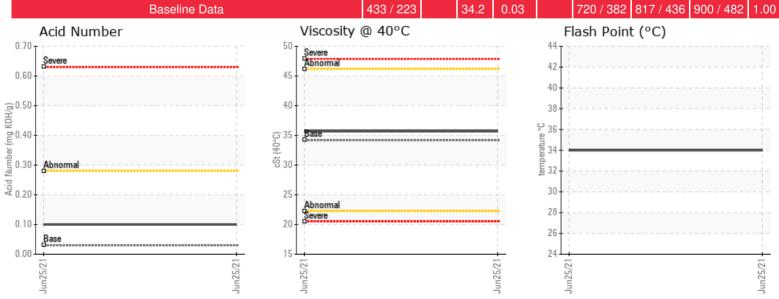
[11-34-79-12W6] ARC RESOURCES

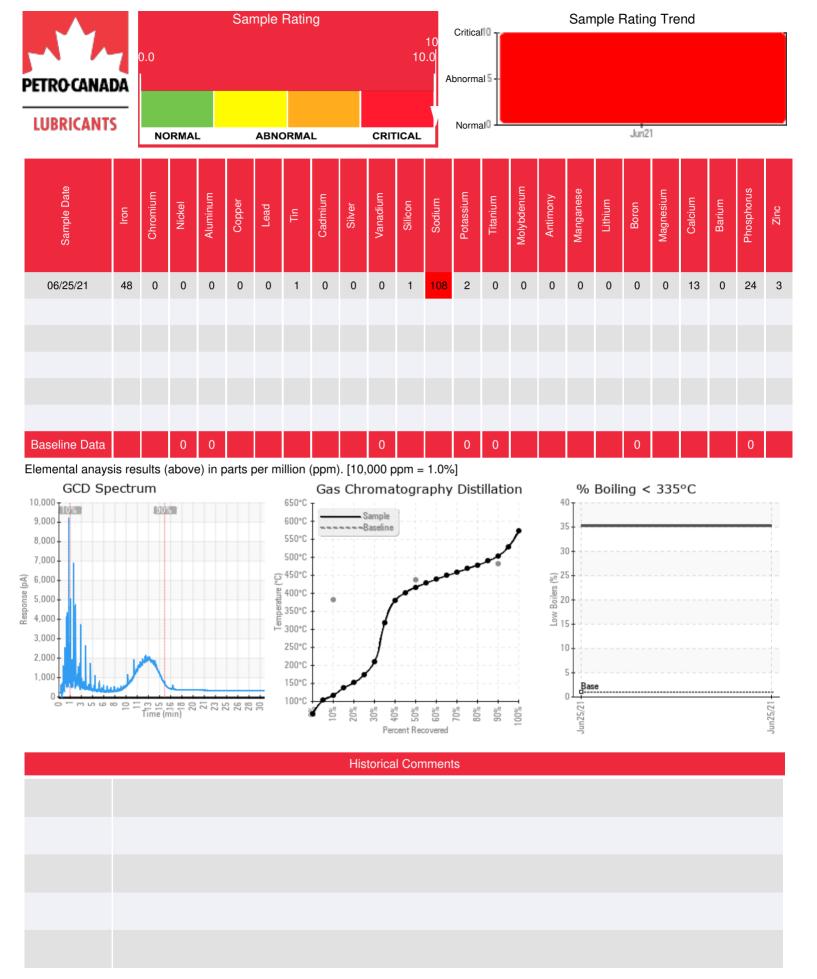
Customer: PTRHTF20159	System Information	Sample Information
UNIVAR CANADA LTD	System Volume: 4000 ltr	Lab No: 02431100
13601 99TH STREET	Bulk Operating Temp: 302F / 150C	Analyst: Clinton Buhler
GRANDE PRARIE, AB T8V 7N9 Canada	Heating Source:	Sample Date: 06/25/21
Attn: Eric Wintjes	Blanket:	Received Date: 07/06/21
Tel: (780)814-2857	Fluid: PETRO CANADA PETRO-THERM	Completed: 07/19/21
E-Mail: eric.wintjes@univarsolutions.com	Make:	Clinton Buhler
		Clinton, Buhler@hollvfrontier.com

Recommendation: Sample results indicate that the fluid is not in good condition. It is contaminated with sodium, but of more concern is the fluid's drastically reduced flash point (34C). The fluid has 35.25% low boiling vapors and very reduced 10% GCD temperature which may be dur to thermal degradation of mixture with process fluid. If this sample is pulled from a representative zone, the fluid needs to be replaced. Please contact Petro-Canada Lubricants technical services for further discussion.

Comments: Sodium ppm levels are severely high. (GCD) % < 335°C is severely high. (GCD) 90% Distillation Point is severely high. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low.







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