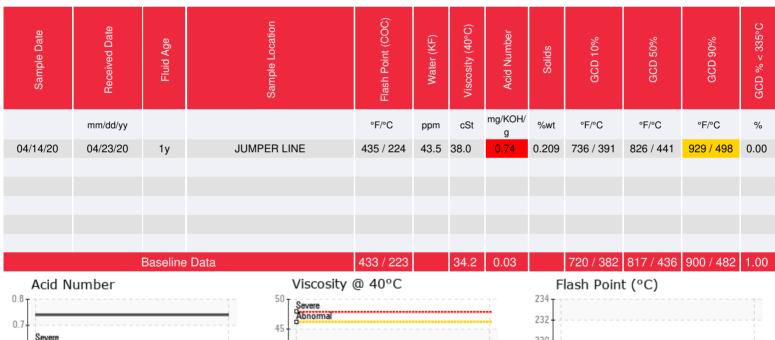


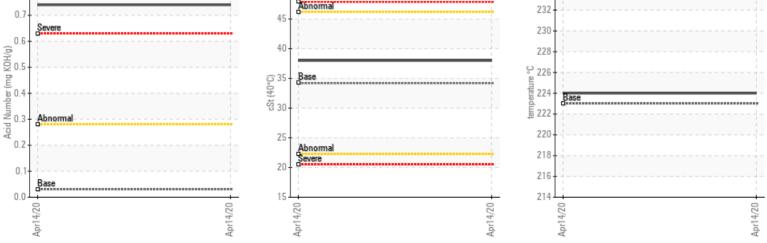
## ASPHALTPLANT

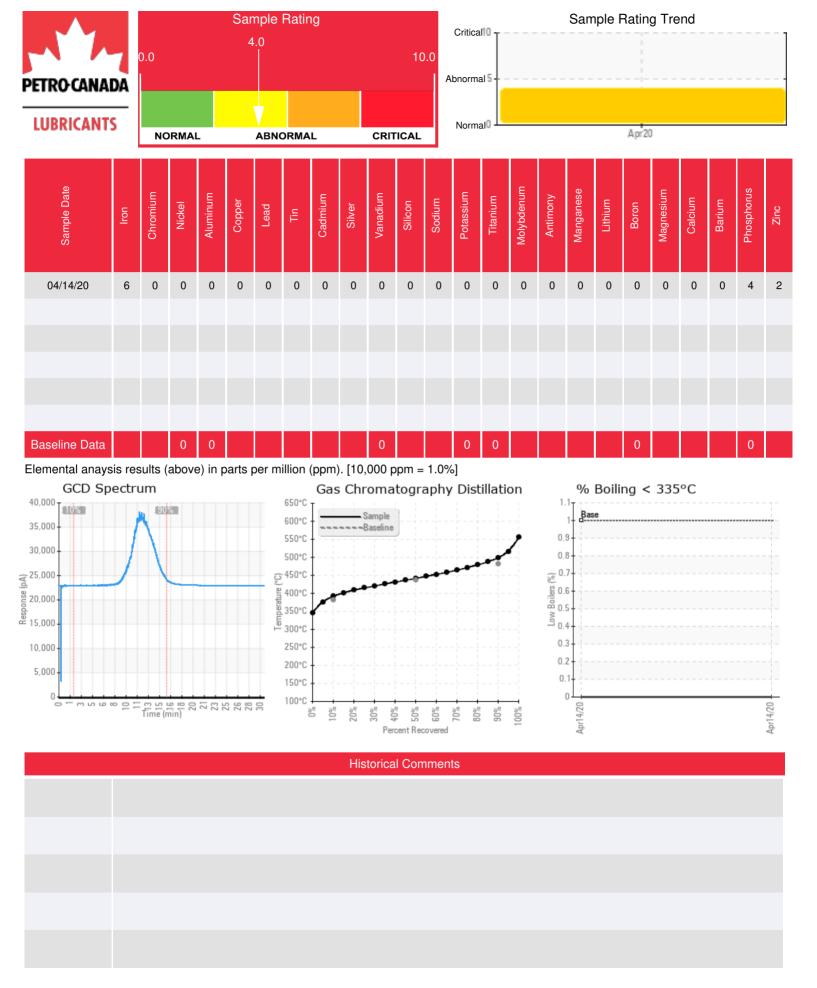
Customer: PTRHTF10232	System Information	Sample Information
LINDAHL BROTHERS INC	System Volume: 400 ltr	Lab No: 02350196
6525 99TH ST	Bulk Operating Temp: 626F / 330C	Analyst: Yvette Trzcinski
CHICAGO RIDGE, IL 60415 USA	Heating Source:	Sample Date: 04/14/20
Attn: Glen Shaler	Blanket:	Received Date: 04/23/20
Tel: (708)243-9392	Fluid: PETRO CANADA PETRO-THERM	Completed: 04/27/20
E-Mail: gshaler@lindahlbros.com	Make: HY-WAY	Yvette Trzcinski
		yvette.trzcinski@petrocanadalsp.com

Recommendation: It appears the fluid is oxidizing due to the very high acid number and the increase in the boiling temperature of the fluid at GCD 90% - the high acid number will lead to further degradation of the fluid and create the potential for oxidation material and sludge deposits to collect in low flow areas of the system and in the heater causing system inefficiencies - Based on the acid number we would recommend sweetening or changing the fluid depending on the size of the system

Comments: Acid Number (AN) is severely high. (GCD) 90% Distillation Point is abnormally high.







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