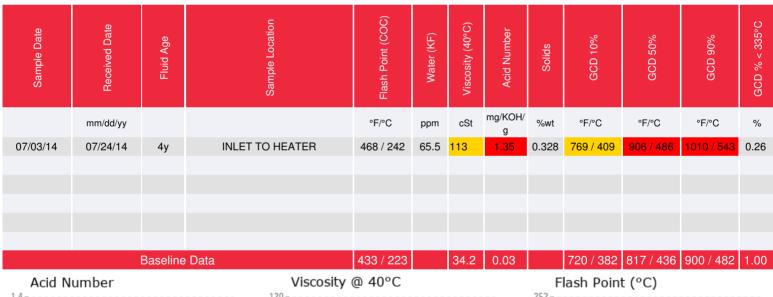


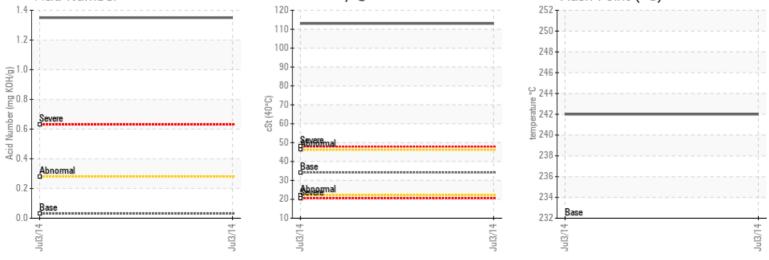
SHEPARD (CALGARY)

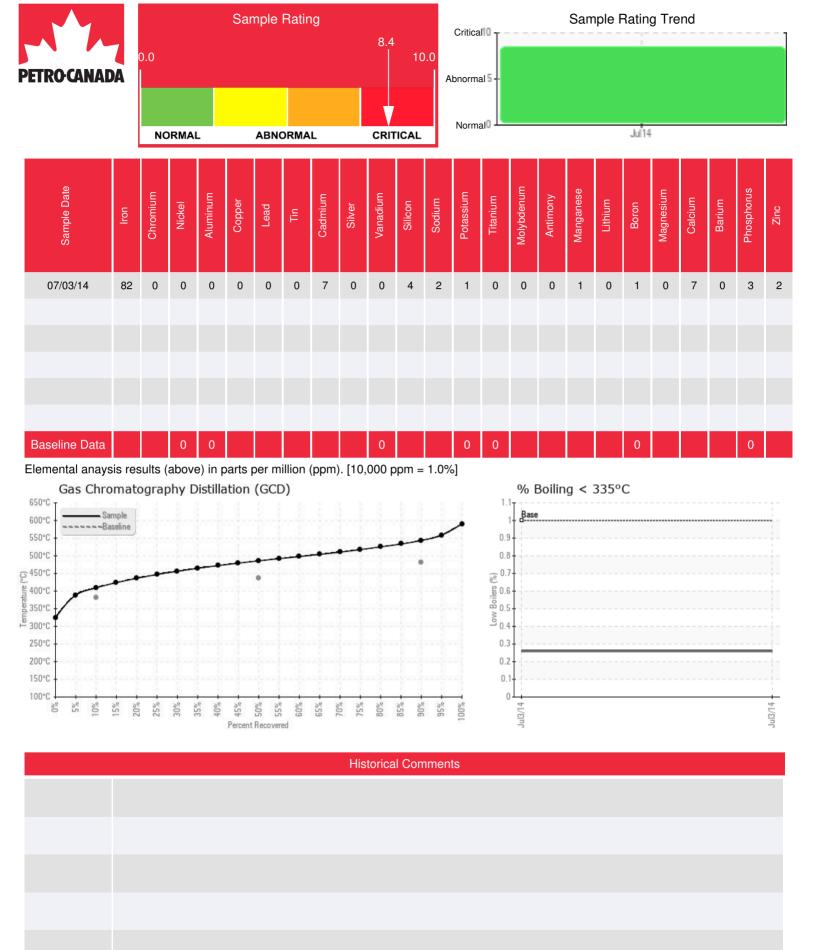
Customer: PTRHTF20056	System Information	Sample Information
COLASPHALT	System Volume: 10000 ltr	Lab No: 01932999
26222 TOWNSHIP ROAD 530A	Bulk Operating Temp: 400F / 204C	Analyst: Chris Armstrong
ACHESON, AB T7X 5A7 Canada	Heating Source:	Sample Date: 07/03/14
Attn: Luis Salinas	Blanket:	Received Date: 07/24/14
Tel: (780)699-2447	Fluid: PETRO CANADA PETRO-THERM	Completed: 09/19/14
E-Mail: luis.salinas@colasphalt.ca	Make: HEATER	To discuss this report contact Chris
		Armstrong at (416)347-3739

Recommendation: We are seeing severe oxidation of this fluid which is going to lead to decreased efficiency of the heat transfer system. It appears as this system is being pushed very hard, contributing to the excess oxidation of the fluid. Please sample again in 4 months time and you will need to consider changing the fluid in the near future if the oxidation continues at this rate.

Comments: Acid Number (AN) is severely high. (GCD) 50% Distillation Point is severely high. (GCD) 90% Distillation Point is severely high. (GCD) 10% Distillation Point is abnormally high. Visc @ 40°C is abnormally high.







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