

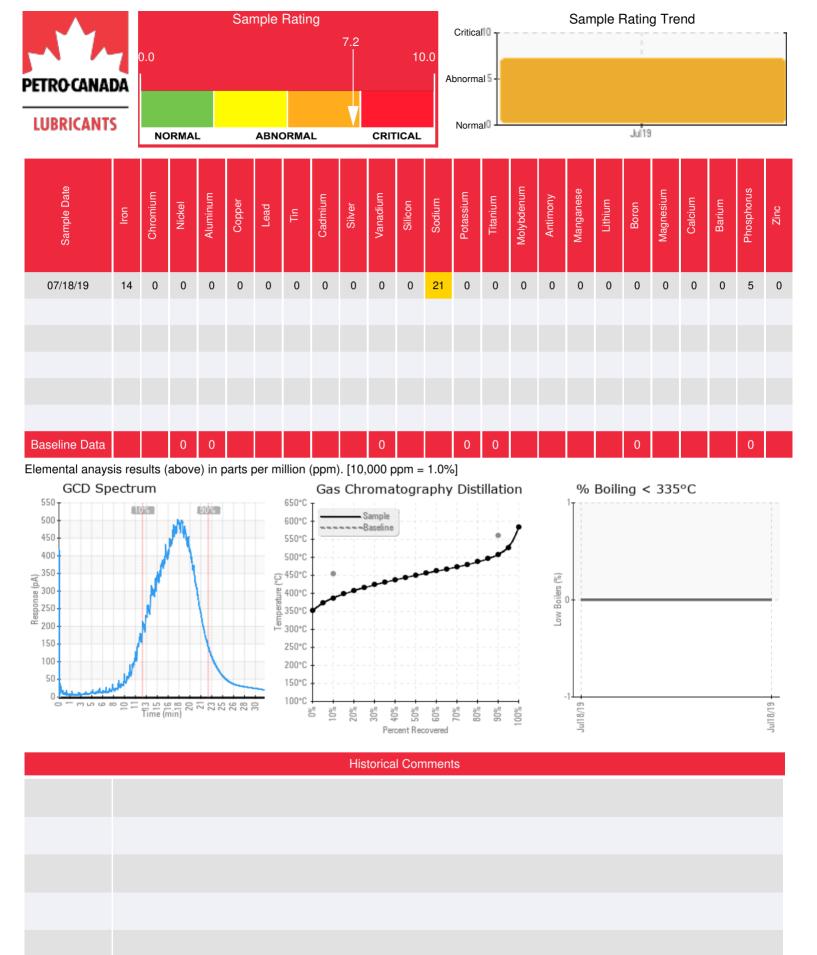
## **HEAT TRANSFER**

Customer: PTRHTF30133	System Information	Sample Information
McAsphalt Industries LTD	System Volume: 1700 ltr	Lab No: 02298374
714 Babin Street	Bulk Operating Temp: 360F / 182C	Analyst: Gaston Arseneault
Dieppe, NB E1A 5M1 Canada	Heating Source:	Sample Date: 07/18/19
Attn: Brent Kinghorn	Blanket:	Received Date: 07/22/19
Tel: (506)857-0110	Fluid: ESSO ESSOTHERM N100	Completed: 08/06/19
E-Mail: bkinghorn@mcasphalt.com	Make: HEATEC	

Recommendation: High TAN, high viscosity and high pentane insoluble indicate the oil oxidation. the oxidation will create acid which will corrode the piping and the fittings. the distillation results and low and high % are abnormal. the higher viscosity will reduce the heat transfer and system overall efficiency.

Comments: Pentane Insolubles levels are abnormally high. (GCD) 10% Distillation Point is severely low. (GCD) 90% Distillation Point is severely low. Acid Number (AN) is abnormally high. Sodium ppm levels are abnormally high.





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