# **BABINE ENERGY SYSTEM**

# Customer: PTRHTF20130

BABINE FOREST PRODUCTS 19479 HIGHWAY 16

EAST BURNS LAKE, BC V0J1E0

Canada

Attn: Bob Petkau Tel: (250)692-6598

E-Mail:

### System Information

System Volume: 50000 ltr

Bulk Operating Temp: 500F / 260C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: WELLONS

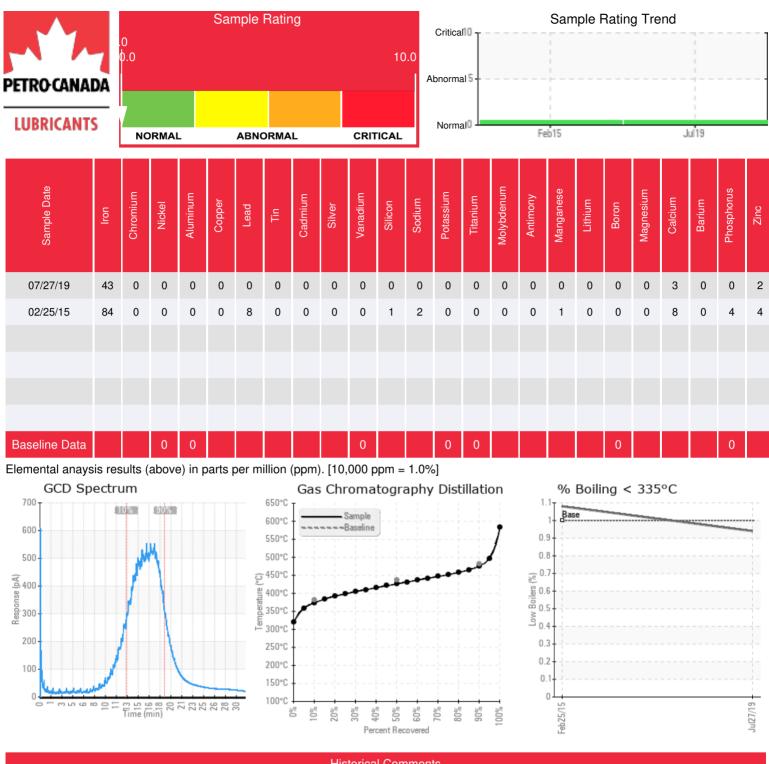
### Sample Information

Lab No: 02300941 Analyst: Ray Rolston Sample Date: 07/27/19 Received Date: 08/06/19 Completed: 08/07/19

Recommendation: This sample of Petro-Therm heat transfer fluid is in very good condition. Wear and additive metals are normal. Water content is low at 0.001% / 13 ppm. The Acid Number (AN) has increased slightly to 0.172 as expected. The fluid`s viscosity at 38.2 cSt @ 40 C is normal. The Cleveland Open Cup flash point is good at 202 deg C. Gas Chromatography Distillation results are good. Sludge and sediment are low as Pentane Insolubles is 0.079 mg.Recommend that the system continue to be monitored, and another sample be submitted in one year.

### Comments:





# Over the analysis data is very good other than the noted high viscosity. However it would appear that this based on the original oil which was an ISO 46 and therefore the viscosity is normal. None of the other analysis data shows any signs of thermal degradation. Visc @ 40°C is abnormally high.

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