

BABINE ENERGY SYSTEM

Customer: PTRHTF20130

BABINE FOREST PRODUCTS 19479 HIGHWAY 16

EAST BURNS LAKE, BC V0J1E0

Canada

0.20

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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: 02427897

Gaston Arseneault

210

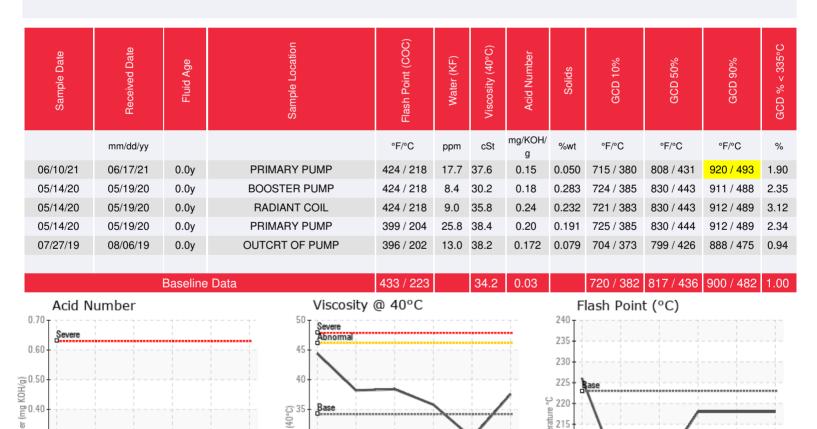
200

Analyst: Gaston Arseneault Sample Date: 06/10/21 Received Date: 06/17/21 Completed: 07/27/21

gaston.arseneault@hollyfrontier.com

Recommendation: The used Petro-Therm heat transfer fluid sample remains in very good condition. Iron wear at 11 ppm is lower than the previous sample which was 53 ppm. No other wear metals were detected. The Acid Number (AN) is low at 0.15 mg KOH/g, and the oil's viscosity is normal. Pentane Insolubles (solids content) has improved from 0.283wt% on the previous sample to 0.05wt%. Recommend submitting another sample next year.

Comments: (GCD) 90% Distillation Point is marginally high.

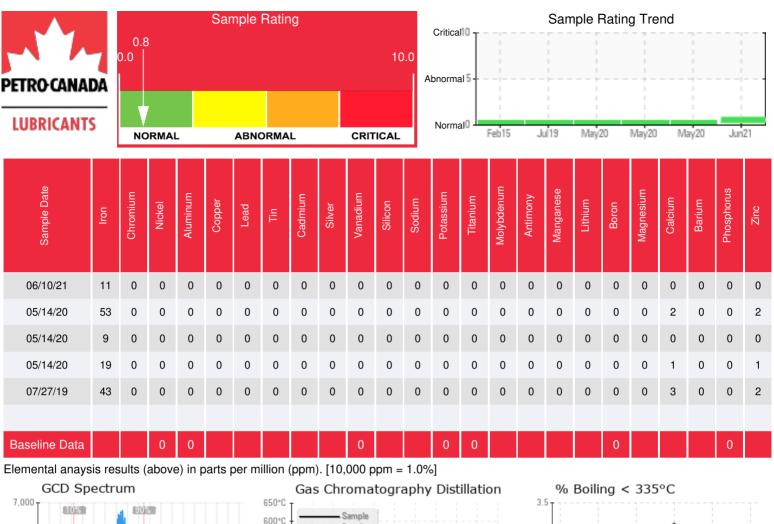


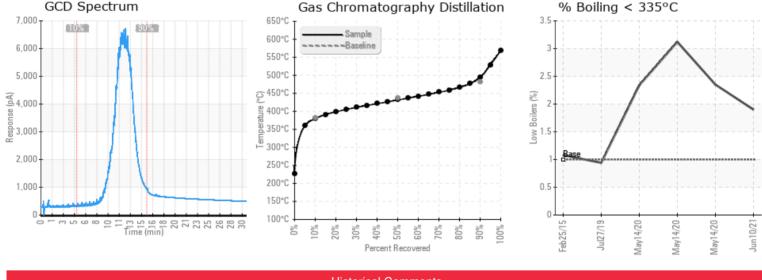


₹ 30

25

Abnorma





Historical Comments	
05/14/20	Lab Number 0234552 sample was obtained from Booster Pump. Note 53 ppm iron wear content and lower viscosity (30.2 cSt @ 40 C). Petro-Therm heat transfer fluid is suitable for continued use; re-sample in one year to monitor fluid's condition.
05/14/20	Note: Lab Number 02354550 sample was obtained from Primary Pump; 02354551 was obtained from Radiant Coil Section; 0234552 was obtained from Booster Pump. Used oil analysis results from 02354550 were provided on May 25, 2020. Note 53 ppm iron wear content and lower viscosity (30.2 cSt @ 40 C) from 02354551 Booster Pump. Note low Initial Boiling Point on all 3 samples, but normal 10% through Final Boiling Point Distillation Range. Petro-Therm is suitable for continued use; re-sample in one year to monitor fluid's condition
05/14/20	Petro-Therm heat transfer fluid is in satisfactory condition for continued use. Recommend re-sampling in one year to monitor.
07/27/19	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

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