



# [ELKO ENERGY PLANT] CANFOR SAMPLE PORT 1

### Customer: PTRHTF20200

CANFOR-ELKO ENERGY PLANT

9600 CASCADE RD

ELKO, BC V0B 1T3 Canada

Attn: Steve Wilson Tel: (250)464-9101

E-Mail: steven.wilson@canfor.com

## **System Information**

System Volume: 75000 ltr

Bulk Operating Temp: 482F / 250C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: DELTECH MANUFACT

### Sample Information

Lab No: 02247773 Analyst: Rob Spiller Sample Date: 10/19/18 Received Date: 10/26/18

Completed: 10/29/18

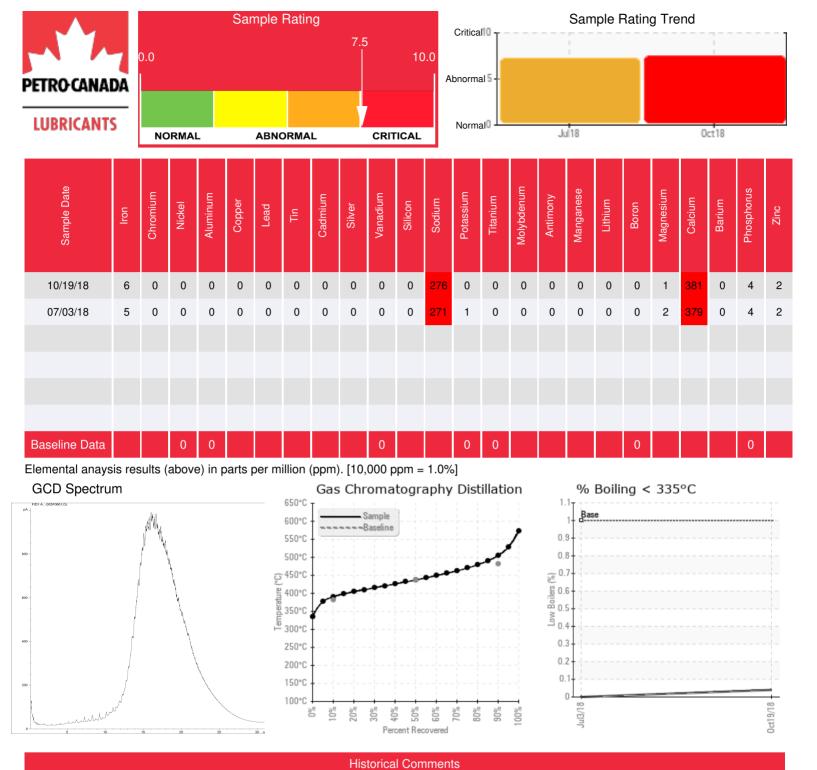
Rob Spiller

Rob.Spiller@hollyfrontier.com

Recommendation: Still seeing high Sodium and Calcium levels with re-sample. Unsure on source of Sodium and Calcium but possibly minerals from water contamination, with 200-300 ppm water present. Overall fluid condition looks good. The elevated 90% distillation temperature shows some signs of fluid degradation but not a concern at this time. Recommend monitoring system by sampling again in 6 months.

Comments: Sodium & Calcium ppm levels are severely high. (GCD) 90% Distillation Point is high.





# Unsure of source of abnormally high Sodium and Calcium Levels. Had discussion with Steve at Canfor Elko. Recommend taking another sample and ensure it is representative of bulk oil circulating in the system. Also make sure that any stagnant oil in the sample port is flushed out before taking sample. Sodium ppm levels are severely high. Calcium ppm levels are severely high.

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