

## West Fraser Quesnel - Energy Plant

## Customer: PTRHTF20242

WEST FRASER MILLS LTD 1250 BROWNMILLER RD QUESNEL, BC V2J 6P5 Canada

Attn: Derek Peterson Tel: (250)991-5408

E-Mail: derek.peterson3@westfraser.com

## System Information

System Volume: 125000 ltr Bulk Operating Temp: 518F / 270C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: CLASSEN

## Sample Information

Lab No: 02379736 Analyst: Ray Rolston Sample Date: 09/25/20 Received Date: 10/06/20 Completed: 10/08/20

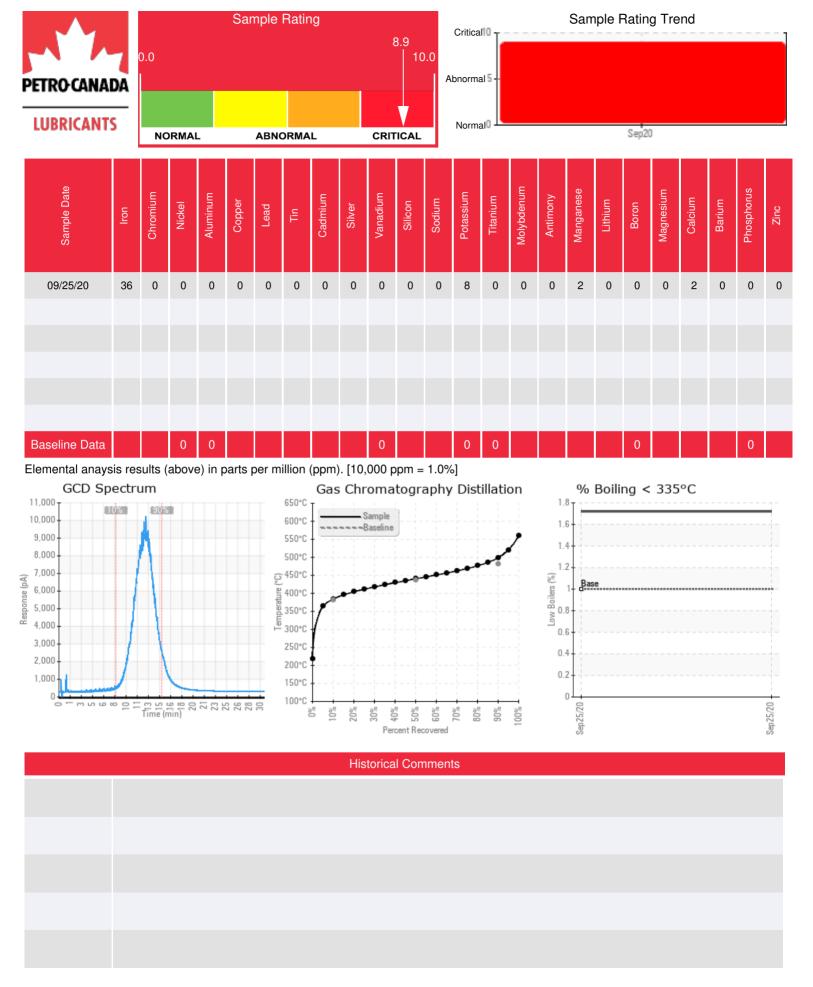
Ray Rolston

Ray.Rolston@petrocanadalsp.com

Recommendation: The Acid Number (AN) value of 0.80mg KOH/g is approaching the condemning guideline of 1.0. Also, the Initial Boiling Point (IBP) value of 217 deg C is well below the fresh oil value of 316 deg C suggesting that some thermal cracking is occurring. The Gas Chromatography Distillation (GCD) curve front end 'noise' supports this observation. Most importantly, the Pentane Insolubles (solids) content of 0.838 wt% exceeds the condemning limit of 0.5 wt%. It is believed that the fluid in the system is over 20 years old. Petro-Canada Lubricants recommends that the heat transfer system be drained, cleaned, flushed and re-filled to remove carbonaceous material and sludge and restore the heat transfer efficiency.

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





Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.