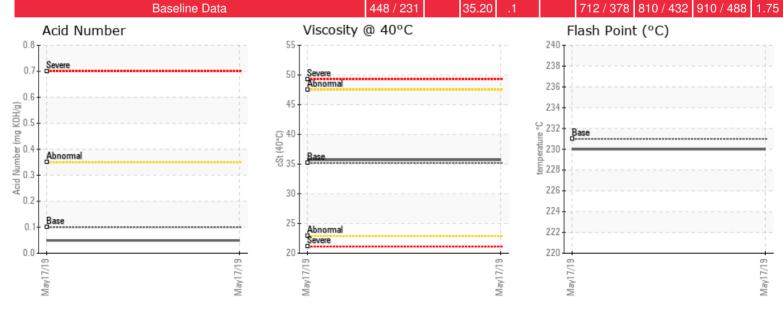


Customer: PTRHTF60010	System Information	Sample Information			
SYNLUBE INTERNATIONAL CO LTD	System Volume: 12300 ltr	Lab No: 02287276			
76/1 MOO.7 THACHIN	Bulk Operating Temp: 482F / 250C	Analyst: Yutong Gao			
MUANG SAMUTSAKHON, 74000	Heating Source:	Sample Date: 05/17/19			
THAILAND	Blanket:	Received Date: 05/27/19			
Attn: CHERNPORN CHOBKUI	Fluid: PETRO CANADA CALFLO HTF	Completed: 05/30/19			
Tel: 034421290	Make:				
E-Mail: chernporn@synlube.co.th					

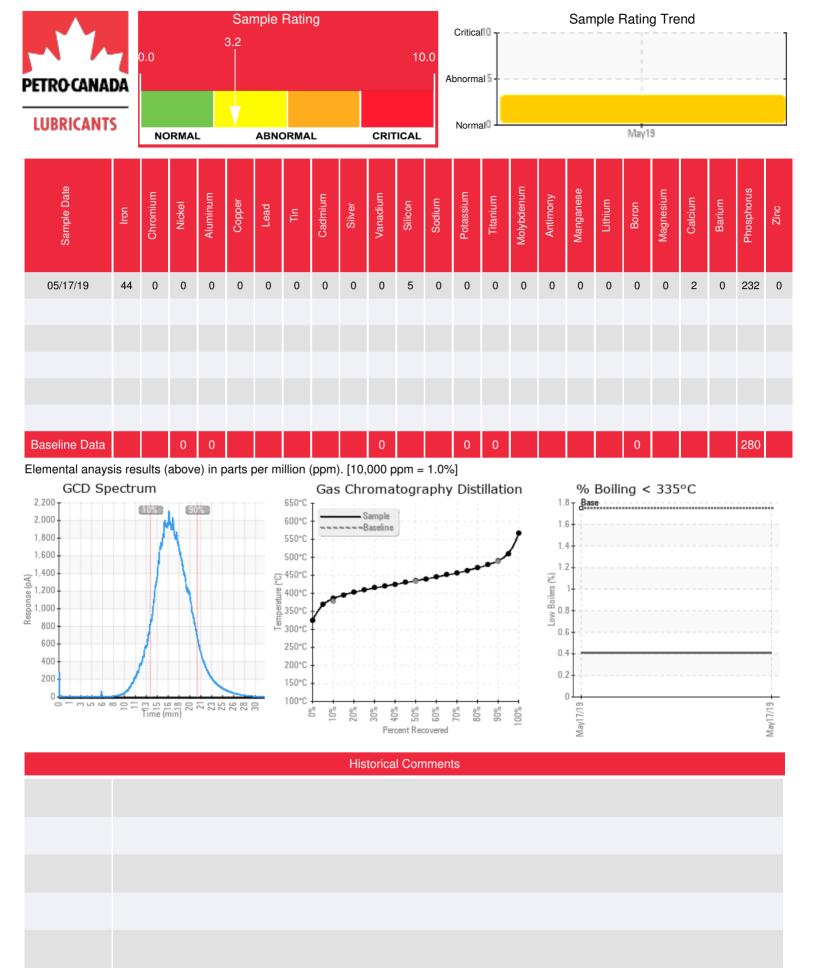
Recommendation: The current fluid has normal viscosity, adequate flash point and the distillation points. The acid number is extremely low meaning there is no any signs of oxidation. The solid content is minimum. However, the fluid is contaminated by water. The 0.2% (or 1813ppm) water content is considered severe. Please trouble-shoot how the water enters into the heat transfer system. If it is a brand new plant, the whole system need to be cleaned and dried thoroughly before filling up the heat transfer fluid.

Comments: Water contamination levels are severely high.

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
05/17/19	05/27/19	0h	SUPPLY AND RETURN	446 / 230	1813.8	35.7	0.049	0.052	724 / 385	814 / 435	914 / 490	0.41



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