

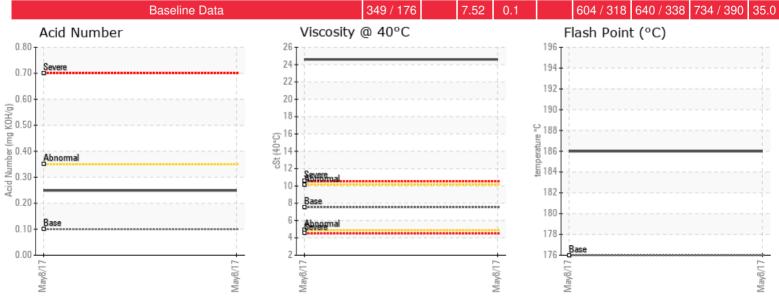
SC

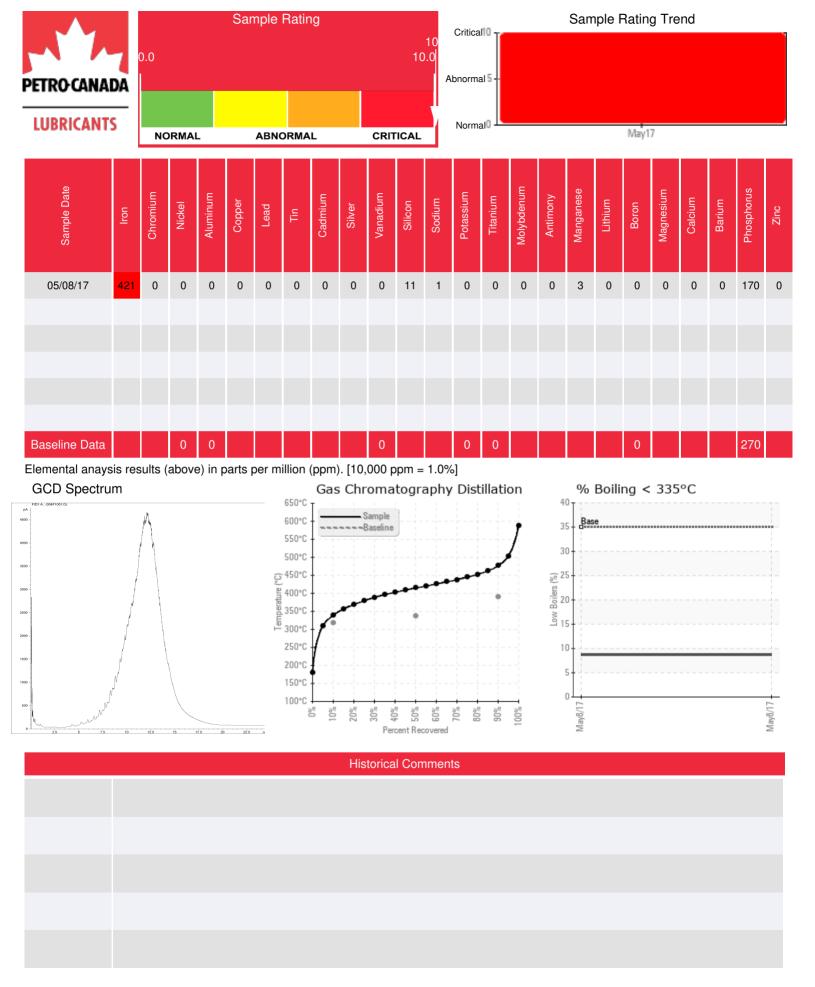
Customer: PTRHTF10189	System Information	Sample Information			
HALOCARBON PRODUCTS CORP.	System Volume: 75 gal	Lab No: 02147763			
P.O. BOX 6369	Bulk Operating Temp: 437F / 225C	Analyst: Manny Garcia			
NORTH AUGUSTA, SC 29841 USA	Heating Source:	Sample Date: 05/08/17			
Attn: Brian Farr	Blanket:	Received Date: 05/25/17			
Tel: (803)278-3500	Fluid: PETRO CANADA CALFLO LT	Completed: 09/05/17			
E-Mail: bfarr@halocarbon.com	Make: N/A	Manny Garcia			
		manuel.garcia@petrocanadalsp.com			

Recommendation: This sample was taken on May 8th 2017. It must have been lost in transit as we have just received & processed the fluid. Please include the hours on the Calflo LT and the hours on the Heat Transfer system during the next routine sample. 'Venting' the heat transfer system may assist in bring the distillation numbers back in line, but there are many other factors to the condition of this oil that is unsatisfactory for continued use. Considering the system is only 75 gallons, it is recommended to drain the fluid and refill with Calflo LT

Comments: Iron levels are very high at 421ppm; Pentane Insolubles are high; (GCD) 50% Distillation Point is severely high; (GCD) 90% Distillation Point is severely high; Visc @ 40°C is severely high - 7.5 Cst is the expected viscosity and the sample shows 24.6 CsT. (GCD) 10% Distillation Point is marginally high. Very light white metals visible in the fluid.

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	%
05/08/17	05/25/17	0h	FROM CIRCULATION PMP	367 / 186	34.9	24.6	0.249	0.478	642 / 339	778 / 415	889 / 476	8.68





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.

Report ID: [02147763] (Generated: 02/01/2021 16:07:08) - Page 2 - Copyright 2021 Wearcheck Inc. All Rights Reserved.