

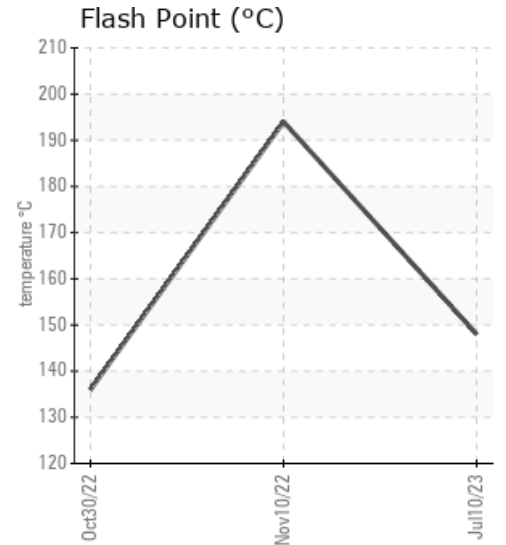
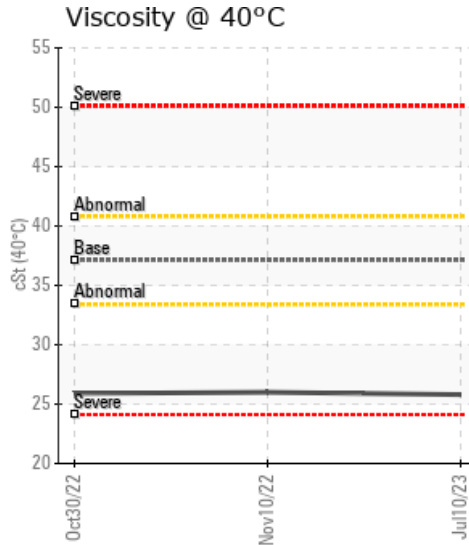
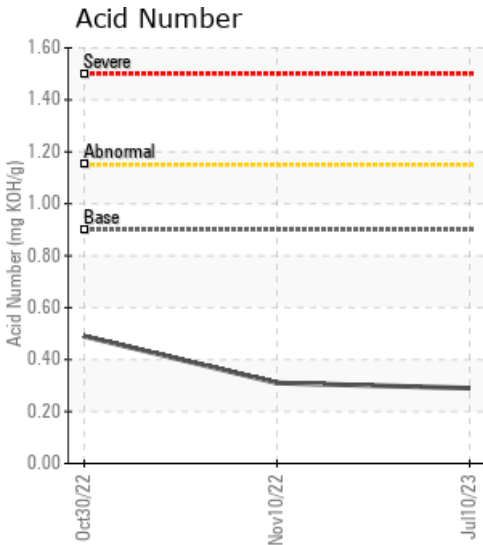
GFPT THAILAND LINE 2/3/4

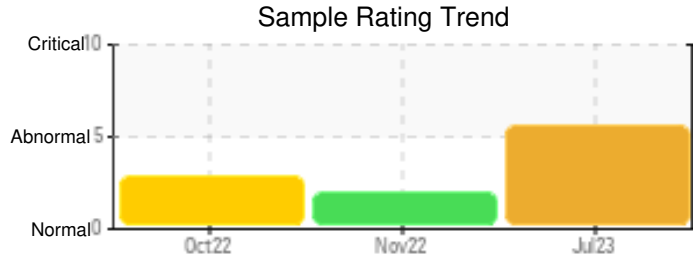
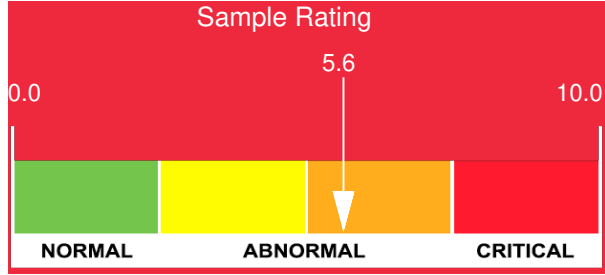
Customer: PTRHTF60010	System Information	Sample Information
SYNLUBE INTERNATIONAL CO LTD 76/1 MOO.7 THACHIN MUANG SAMUTSAKHON, 74000 TH Attn: Kittisak Suthithanakom Tel: 6(681)850-1907 E-Mail: kittisak@synlube.co.th	System Volume: 16000 ltr Bulk Operating Temp: 554F / 290C Heating Source: Blanket: Fluid: PETRO CANADA PURITY FG HEAT TRANSFER FLUID Make: WANSON	Lab No: 02570285 Analyst: Bill Quesnel CLS,OMA II,MLA-III,LLA-I Sample Date: 07/10/23 Received Date: 07/14/23 Completed: 07/20/23 Bill Quesnel CLS,OMA II,MLA-III,LLA-I

Recommendation: We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. We recommend an early resample to monitor this condition.

Comments: COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) 90% Distillation Point is marginally high.

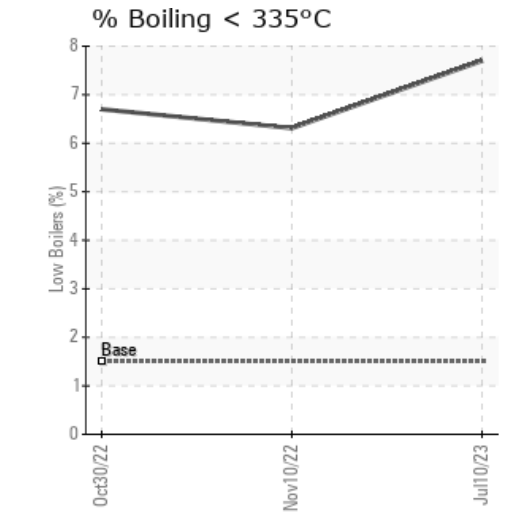
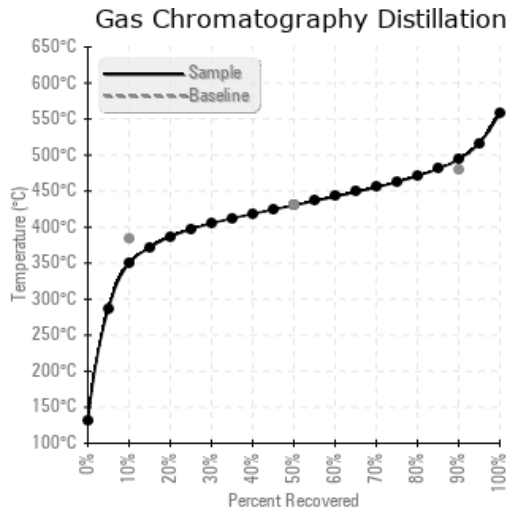
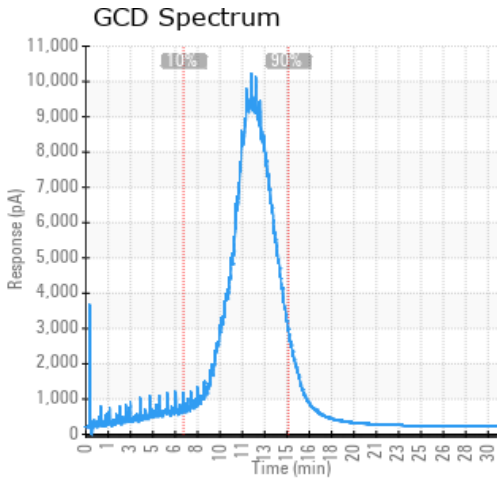
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
07/10/23	07/14/23	27.0m	supply return	298 / 148	22.2	25.8	0.29	0.083	661 / 350	806 / 430	921 / 494	7.70
11/10/22	12/22/22	18.0m		381 / 194	17.3	26.0	0.31	0.020	679 / 359	811 / 433	924 / 496	6.31
10/30/22	11/15/22	17.0m	SUPPLYRETURN	277 / 136	21.4	25.9	0.49	0.167	675 / 357	807 / 431	918 / 492	6.70
Baseline Data				459 / 237		37.12	0.90		721 / 383	807 / 431	892 / 478	1.5





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
07/10/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1
11/10/22	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0
10/30/22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0
Baseline Data			0	0						0			0	0				0	0				230	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments	
11/10/22	The flash point has recovered significantly. We recommend that you continue to vent the expansion tank to remove low boilers every month. We recommend an early resample to continue to monitor this condition. (GCD) 90% Distillation Point is abnormally high. Visc @ 40°C is abnormally low. COC Flash Point is marginally low.
10/30/22	We recommend that you vent the expansion tank to remove low boilers which assists in restoring the flash point of the fluid. We recommend an early resample to monitor this condition. COC Flash Point is severely low. Visc @ 40°C is abnormally low. (GCD) 90% Distillation Point is marginally 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.