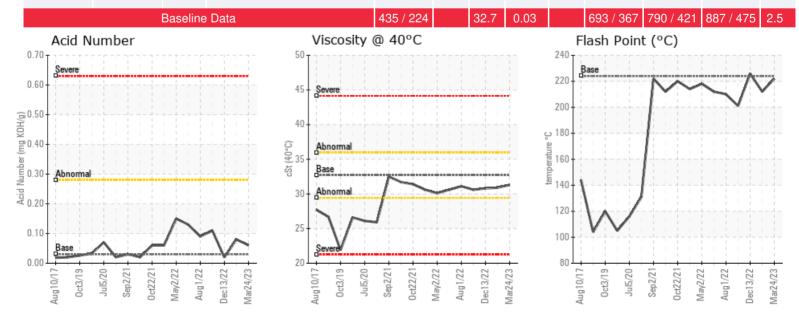
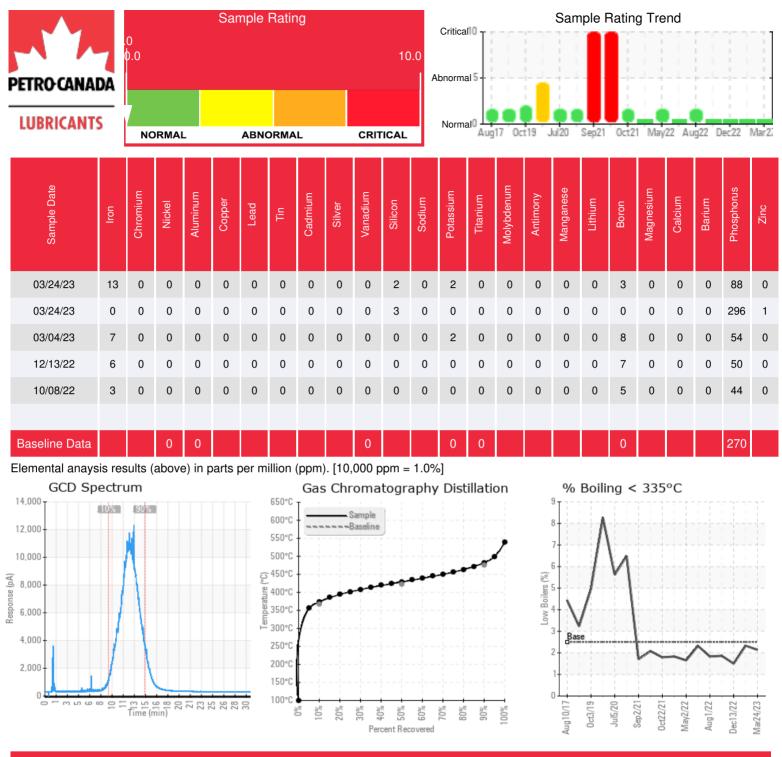


Recommendation: From the sample results fluid condition is very good, the sample color looks similar to the last sample collected on March 4 2023. This sample was collected from the seal pot. Water content is very low.

Comments:

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	%
03/24/23	04/05/23	24.0m	hoh2 18-59	432 / 222	19.0	31.3	0.06	0.103	703 / 373	803 / 429	900 / 482	2.14
03/24/23	04/05/23	24.0m	hoh2 18-60	446 / 230	5.4	32.3	0.01	0.080	701 / 372	798 / 425	901 / 483	1.13
03/04/23	03/13/23	20.0m		414 / 212	37.7	30.9	0.08	0.049	702 / 372	804 / 429	900 / 482	2.33
12/13/22	12/22/22	18.0m	after pump discharge	439 / 226	26.0	30.8	0.02	0.020	708 / 376	807 / 430	902 / 484	1.50
10/08/22	10/17/22	0.0m	PUMP	394 / 201	137.0	30.6	0.11	0.333	706 / 374	805 / 429	899 / 482	1.86





Historical Comments

03/24/23	Sample results indicate the fluid is in good condition, the color on this sample is brighter and clear it almost appears to be new fluid vs the other recent samples. This sample was collected from the seal pot tank. Water content is very low.
03/04/23	Fluid looks to be in very good condition and is suitable for continued use. Water content is very low, venting program appears to be working well. Resample in 6 months.
12/13/22	Units are being sampled at very short intervals recommended sampling for heat transfer systems with no issues is 12 months. Sample results indicate that the fluid is in suitable condition for continued service.
10/08/22	Sample results indicate that the fluid is in good condition and is suitable for continued service. Pentane insolubles are up slightly from the last sample. Resample in 12 months.

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.