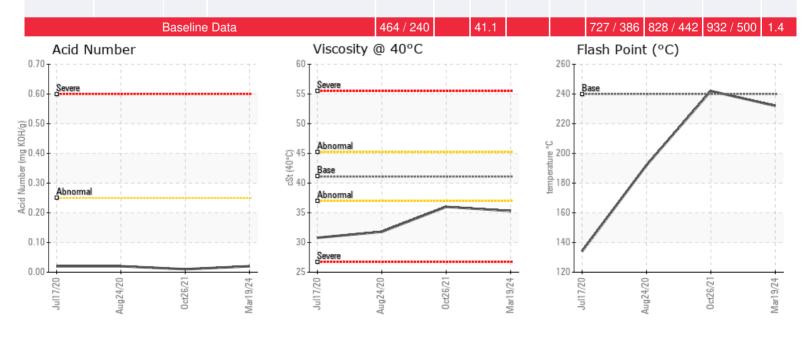
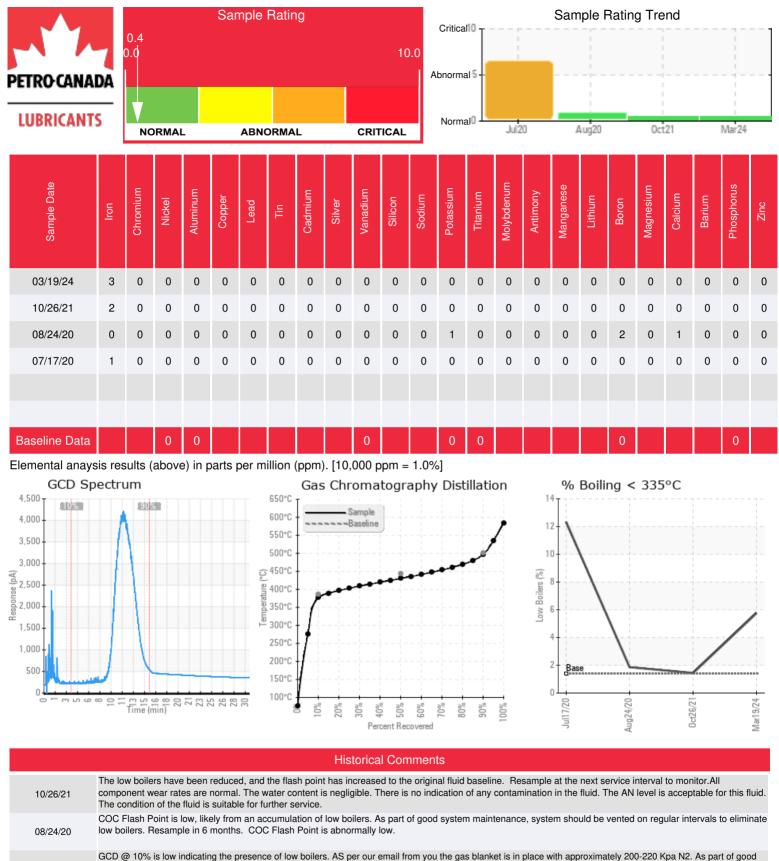


Recommendation: Sample results indicate the fluid is in suitable condition for continued service. Low boiler vapor content has increased to 5.75%; expansion tank venting is helpful in reducing this. Please re-sample in 12 months.

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	%
03/19/24	04/11/24	8.0y	accumulator	450 / 232	3	<mark>35.3</mark>	0.02	0.039	710 / 377	806 / 430	925 / 496	5.75
10/26/21	11/25/21	13.0y	FILTER POT	468 / 242	13.9	36.0	0.01	0.046	744 / 396	838 / 448	935 / 502	1.44
08/24/20	09/10/20	13.0y	Inlet piping	378 / 192	45.8	31.8	0.02	0.072	744 / 395	839 / 449	936 / 502	1.86
07/17/20	07/30/20	40000.0y	CL-2007-0667-01	273 / 134	5.7	30.8	0.02	0.030	251 / 121	783 / 417	919 / 493	12.32





O7/17/20 system maintenance, regularly vent off the system to eliminate low boilers from the system. This should also restore your flash point of the fluid. Resample in 6 months. (GCD) 10% Distillation Point is severely low. COC Flash Point is severely low. (GCD) % < 335°C is abnormally high. (GCD) 90% Distillation Point is marginally high.</li>

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.