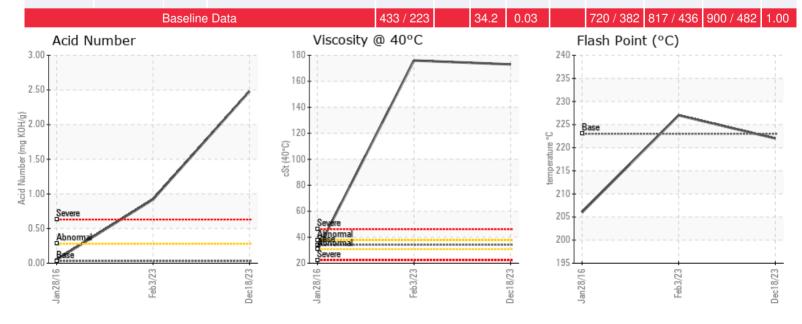


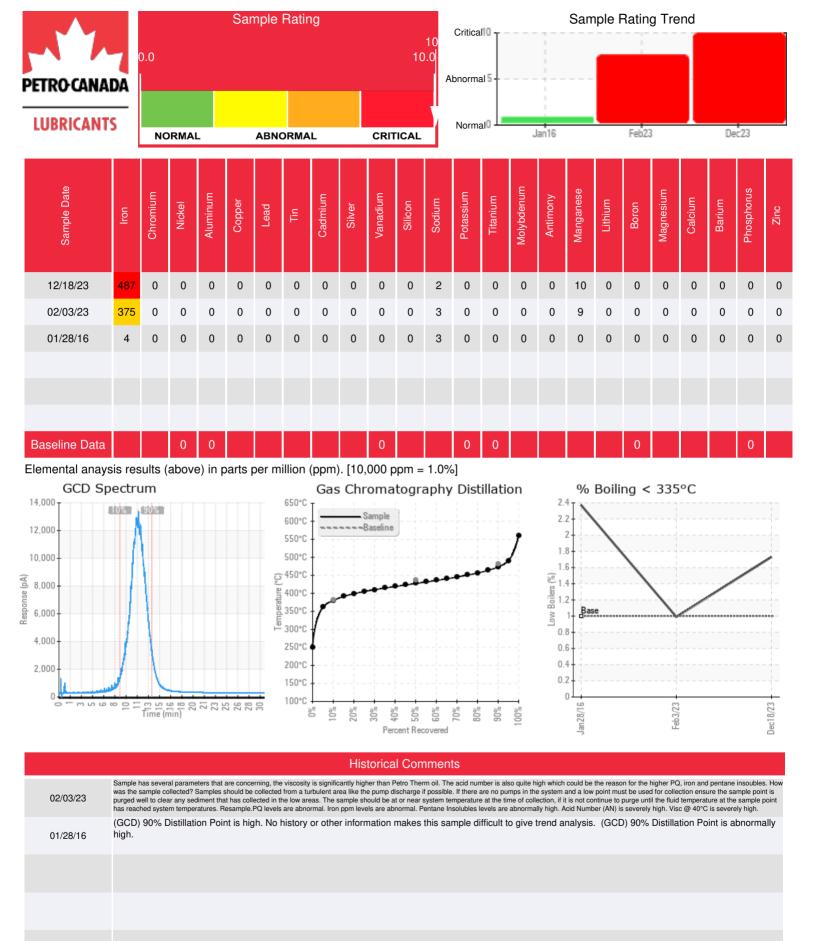
Recommendation: Sample results indicate the system requires a cleaning, flush and re-fill with fresh heat transfer fluid due to severe oxidative degradation: Acid Number is at 2.48 (limit is 1); this is likely causing significant metal corrosion as shown by 487 ppm of Iron; fluid viscosity is 173 cSt (should be close to 35) cSt. Solids content has increased to 3.47%, indicating severe system fouling. Plans need to be made for system cleaning and fluid replacement in 2024. Please contact Petro-Canada Lubricants Tech Services for further details.

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	%
12/18/23	01/05/24	7.0y		432 / 222	103	173	2.48	3.47	716 / 380	801 / 427	884 / 473	1.73
02/03/23	03/17/23	0.0y	sight glass	441 / 227	119.6	176	0.92	0.500	722 / 383	803 / 428	886 / 474	0.99
01/28/16	02/16/16	6.0y	RETURN LINE	403 / 206	65.9	29.9	0.05	0.149	715 / 379	820 / 438	933 / 501	2.37



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