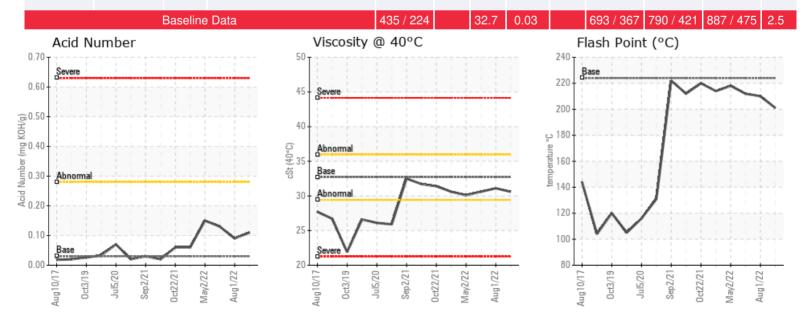


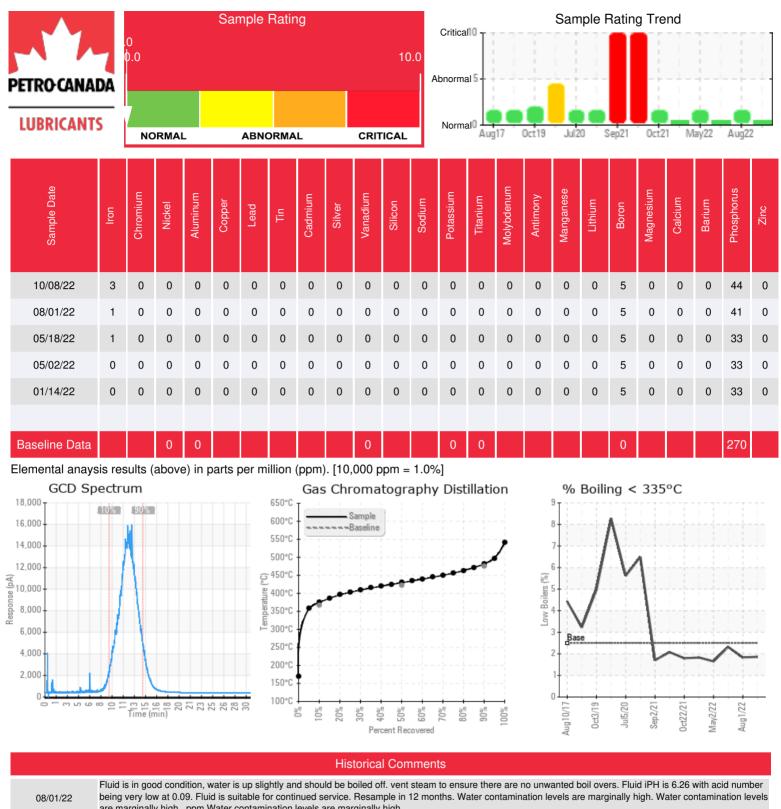
Recommendation: Sample results indicate that the fluid is in good condition and is suitable for continued service. Pentane insolubles are up slightly from the last sample. Resample in 12 months.

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	%
10/08/22	10/17/22	0.0y	PUMP	394 / 201	137.0	30.6	0.11	0.333	706 / 374	805 / 429	899 / 482	1.86
08/01/22	08/18/22	1.3y	PUMP DISCHARGE	410 / 210	474.1	31.1	0.09	0.116	705 / 374	805 / 429	898 / 481	1.83
05/18/22	05/26/22	1.0y		414 / 212	173.5	30.6	0.13	0.080	702 / 372	804 / 429	899 / 481	2.32
05/02/22	05/09/22	1.0y	Hot oil filter	424 / 218	712.7	30.1	0.15	0.049	705 / 374	806 / 430	900 / 482	1.65
01/14/22	02/04/22	0.0y	hot oil pump	417 / 214	142.4	30.6	0.06	0.017	703 / 373	803 / 429	897 / 481	1.83



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08/01/22	being very low at 0.09. Fluid is suitable for continued service. Resample in 12 months. Water contamination levels are marginally high. Water contamination levels are marginally high. Use contamination levels are marginally high.
05/18/22	Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months.
05/02/22	Water was flagged again, ensure any ingress points are closed up. Is there any process locations that could allow water to enter the heating fluid? It would be best to boil off excess water to reduce the corrosion risk, vent the steam to ensure there are no unwanted boil overs. Resample in 6 months Water contamination levels are abnormally high.
01/14/22	Sample results indicate that the fluid is in suitable condition for continued service. Water content has been lowered successfully. Resample in 12 months

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