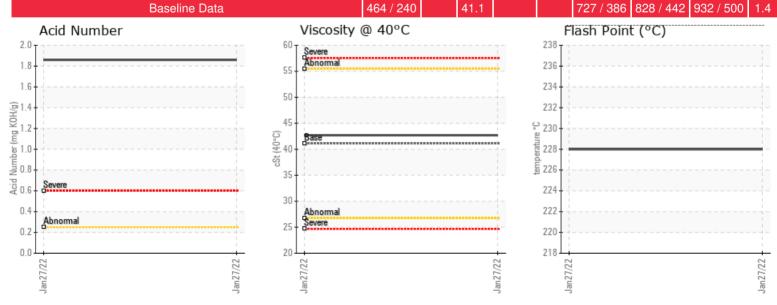


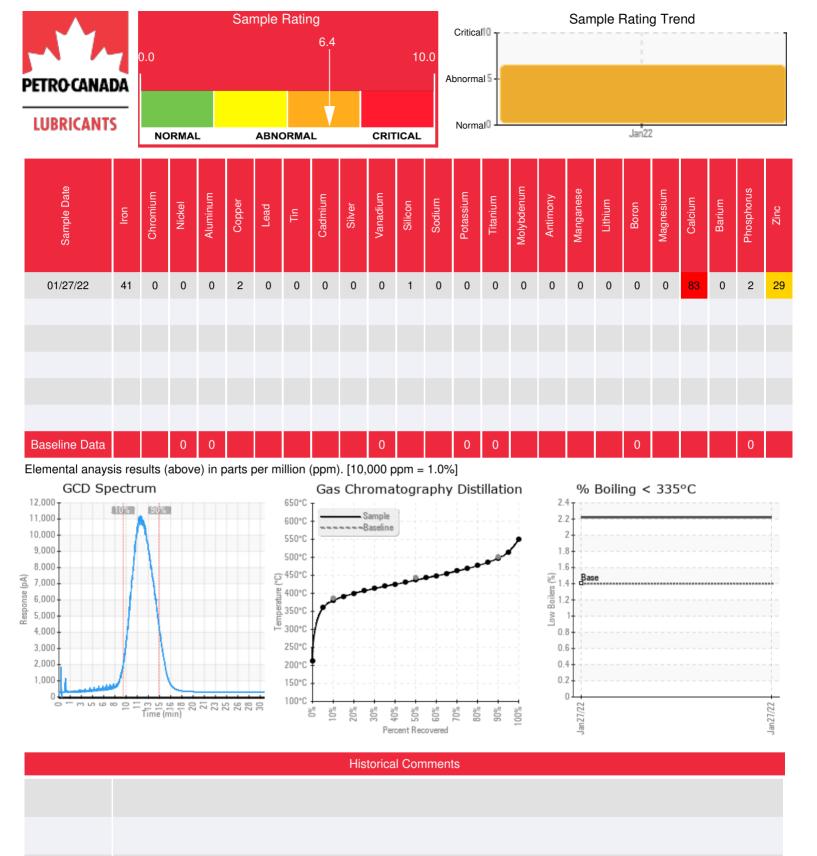
Customer: PTRHTF10252	System Information	Sample Information			
RIVER BEND MATERIALS	System Volume: 600 gal	Lab No: 02470027			
90520 COBURG RD	Bulk Operating Temp: 350F / 177C	Analyst: Ron LeBlanc			
EUGENE, OR 97408 USA	Heating Source:	Sample Date: 01/27/22			
Attn: Josh Stanwood	Blanket:	Received Date: 02/03/22			
Tel:	Fluid: CHEVRON HEAT TRANSFER OIL 46	Completed: 02/09/22			
E-Mail: josh.stanwood@rbmaterials.com	Make:	Ron LeBlanc			
		Ronald.LeBlancSr@hollyfrontier.com			

Recommendation: It appears the oil is oxidized and carbon deposits are present. Zinc is present which indicates hydraulic oil or wear metals in the system. Acid number is high due to oxidation. Cleaning, flushing and refill with Petro-Therm.

Comments: Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. Calcium ppm levels are severely high. Zinc ppm levels are abnormally 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	%
01/27/22	02/03/22	13.0y	RETURN LINE	442 / 228	86.3	42.7	1.86	3.75	715 / 379	817 / 436	927 / 497	2.22





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.