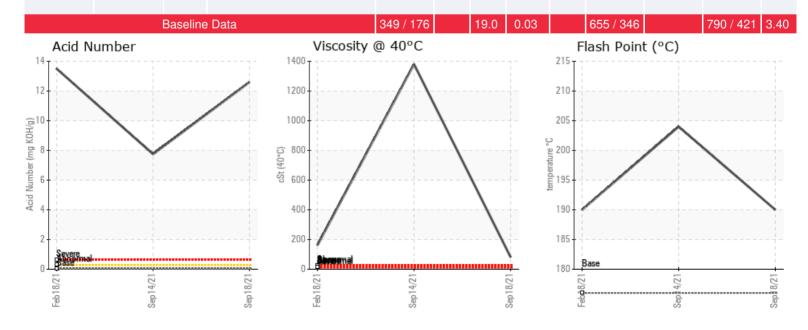


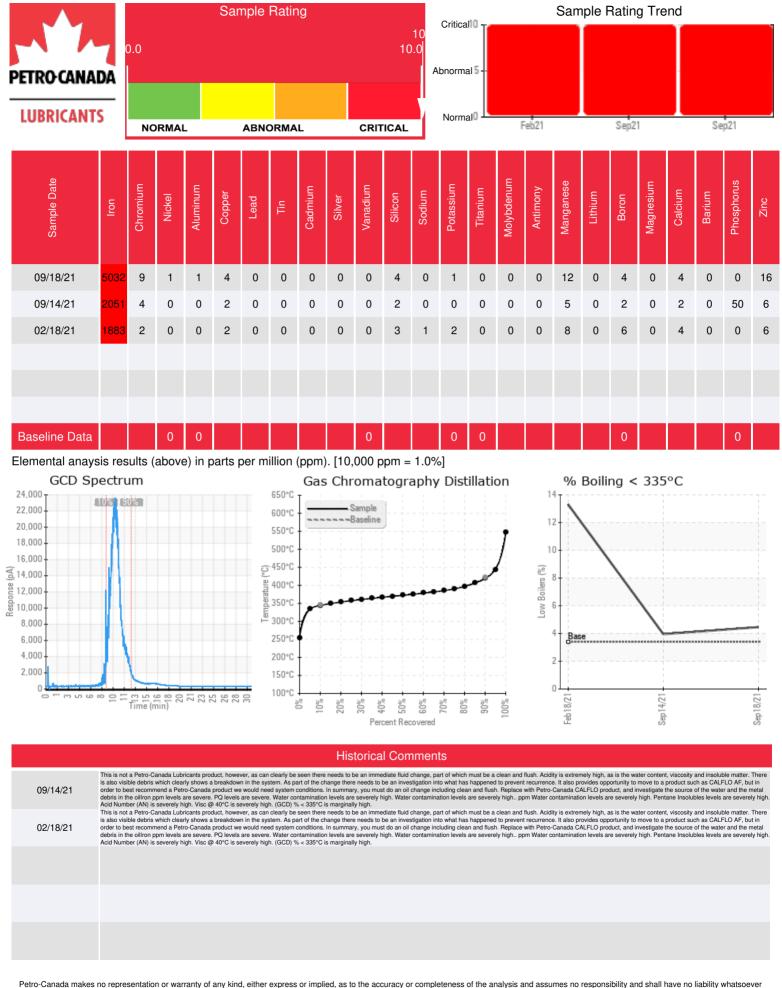
Recommendation: This is not a Petro-Canada Lubricants product, however, as can clearly be seen there needs to be an immediate fluid change, part of which must be a clean and flush. Acidity is extremely high, as is the water content, viscosity and insoluble matter. There is also visible debris which clearly shows a breakdown in the system. As part of the change there needs to be an investigation into what has happened to prevent recurrence. It also provides opportunity to move to a product such as CALFLO AF, but in order to best recommend a Petro-Canada product we would need system conditions. In summary, you must do an oil change including clean and flush. Replace with Petro-Canada CALFLO product, and investigate the source of the water and the metal debris in the oil

Comments: Iron ppm levels are severe. PQ levels are severe. Water contamination levels are high. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. Visc @ 40°C is severely 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	%
09/18/21	11/02/21	0.1y	FILTER NO 8	374 / 190	<mark>479.9</mark>	80.5	12.6	3.73	651 / 344	702 / 372	785 / 419	4.46
09/14/21	11/02/21	22.0y	FILTER NO 8	399 / 204	294.1	1381	7.75	7.21	655 / 346	716 / 380	854 / 457	3.96
02/18/21	02/26/21	21.0y	Return	374 / 190	65881.1	161	13.5	9.88	602/317	698 / 370	802 / 428	13.30



Report ID: [02453404] (Generated: 11/29/2021 11:52:07) - Page 1 - Copyright 2021 Wearcheck Inc. All Rights Reserved.



with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.