

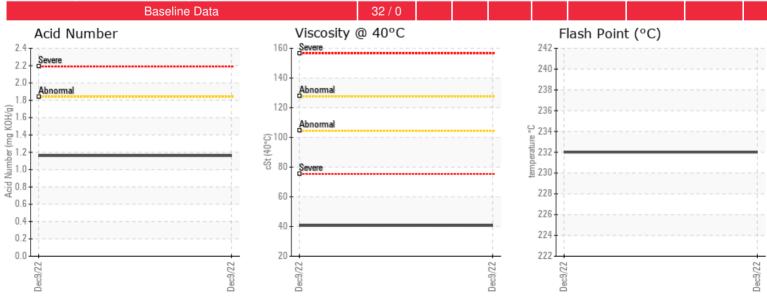
HEATER2

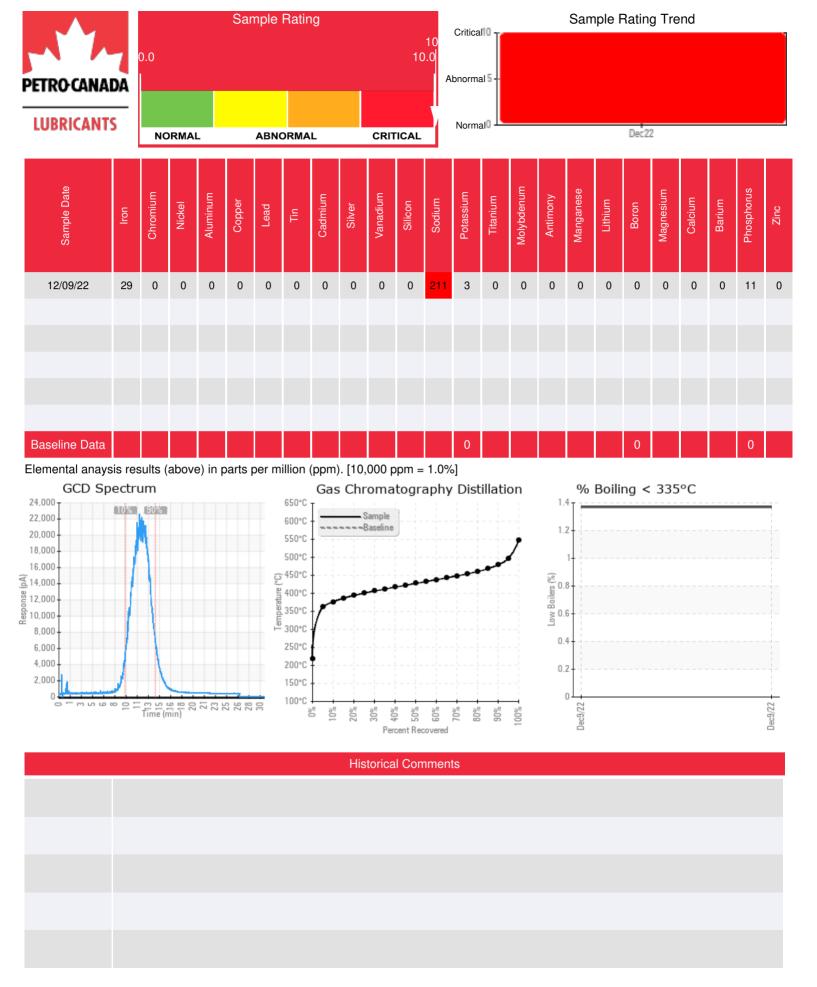
Customer: PTRHTF30137	System Information	Sample Information			
McAsphalt Industries LTD	System Volume: 10000 ltr	Lab No: 02528513			
950 Boulevard Gérard-Cadieux	Bulk Operating Temp: 380F / 193C	Analyst: Jean Lacharite			
Salaberry-de-Valleyfield, QC J6T 6L4 CA	Heating Source:	Sample Date: 12/09/22			
Attn: Dino Tsiptsis	Blanket:	Received Date: 12/13/22			
Tel: (450)377-8420	Fluid: N/A	Completed: 12/22/22			
E-Mail: dtsiptsis@mcasphalt.com	Make: HEATEC	Jean Lacharite			
		jean.lacharige@HFSinclair.com			

Recommendation: The presence of wear metals is normal. The sodium is at 211 ppm, it's contamination or a coolant leak. The acid number (AN) is high: 1.16, high insoluble pantene, 0.771%. Viscosity is high 40.6 cSt @ 40C this is a yellow flag. the acidity of the oil risks corroding the pipes and fittings with the risk of pitting and leaks. should monitor the system and refresh some of the HTF, 25%, with fresh Petro Therm oil.

Comments: Pentane Insolubles levels are high (red Flag). Increase the level of filtration to remove solids in the systems. Sodium ppm levels are severely high (red Flag).

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	%
12/09/22	12/13/22	26.0y	PUMP 4 IN/OUT LOOP	450 / 232	75.6	40.6	1.16	0.771	709 / 376	801 / 427	893 / 479	1.37





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.

Report ID: [02528513] (Generated: 09/27/2023 12:12:16) - Page 2 - Copyright 2023 Wearcheck Inc. All Rights Reserved.