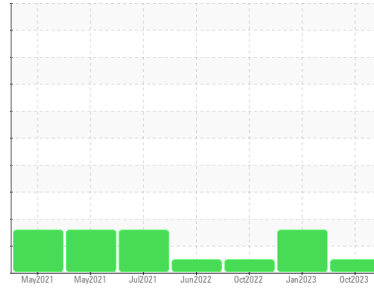


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Rock Truck
Machine Id
HT2607
Component
Transmission (Manual)
Fluid
PETRO CANADA DURATRAN (72 LTR)

DIAGNOSIS

Recommendation
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the fluid.

Fluid Condition
Additive levels indicate the addition of a different brand, or type of fluid. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0066727	PC0067019	PC0048640
Sample Date	Client Info	07 Oct 2023	08 Jan 2023	11 Oct 2022
Machine Age	hrs	40917	37663	36264
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	ATTENTION	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >200	1	4	6
Chromium	ppm	ASTM D5185(m) >5	0	0	0
Nickel	ppm	ASTM D5185(m) >5	0	0	0
Titanium	ppm	ASTM D5185(m)	0	<1	<1
Silver	ppm	ASTM D5185(m) >7	<1	0	0
Aluminum	ppm	ASTM D5185(m) >25	<1	2	1
Lead	ppm	ASTM D5185(m) >45	1	0	<1
Copper	ppm	ASTM D5185(m) >225	17	5	25
Tin	ppm	ASTM D5185(m) >10	0	0	<1
Antimony	ppm	ASTM D5185(m)	0	<1	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 110	15	▲ 3	46
Barium	ppm	ASTM D5185(m) 0.0	<1	0	0
Molybdenum	ppm	ASTM D5185(m) 0.0	7	▲ 47	14
Manganese	ppm	ASTM D5185(m) 1	0	<1	<1
Magnesium	ppm	ASTM D5185(m) 13	120	▲ 745	210
Calcium	ppm	ASTM D5185(m) 3610	2298	▲ 1498	2562
Phosphorus	ppm	ASTM D5185(m) 1192	934	1089	1073
Zinc	ppm	ASTM D5185(m) 1455	1063	1155	1131
Sulfur	ppm	ASTM D5185(m) 2641	2615	3237	3482
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

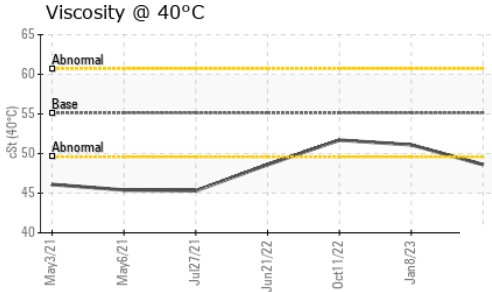
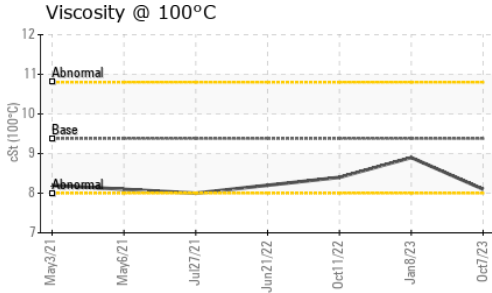
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >125	3	4	6
Sodium	ppm	ASTM D5185(m)	<1	2	5
Potassium	ppm	ASTM D5185(m) >20	0	<1	0

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	Visual* NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual* NONE	NONE	NONE	NONE
Precipitate	scalar	Visual* NONE	NONE	NONE	NONE
Silt	scalar	Visual* NONE	NONE	NONE	NONE
Debris	scalar	Visual* NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual* NONE	NONE	NONE	NONE
Appearance	scalar	Visual* NORML	NORML	NORML	NORML
Odor	scalar	Visual* NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual* >0.1	NEG	NEG	NEG
Free Water	scalar	Visual* >0.1	NEG	NEG	NEG

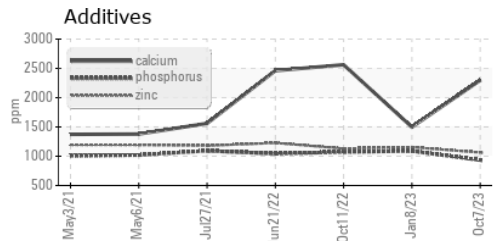
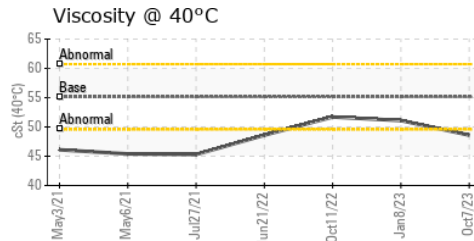
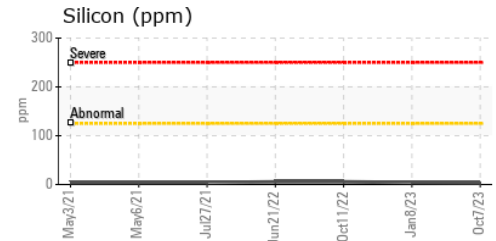
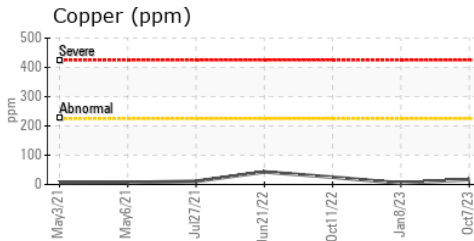
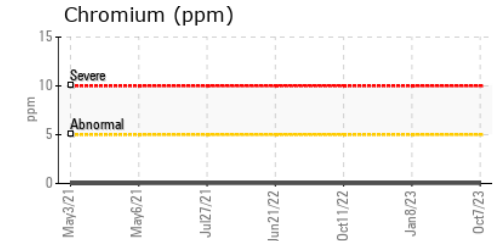
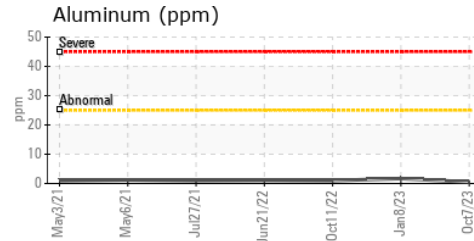
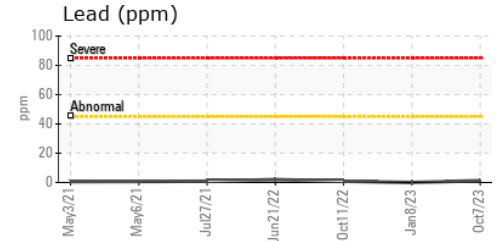
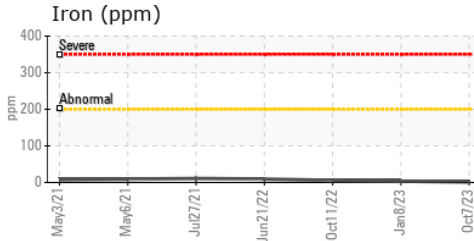
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	48.6	51.1	51.7
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	8.1	8.9	8.4
Viscosity Index (VI)	Scale	ASTM D2270*	153	138	154	136

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0066727 **Received** : 01 Nov 2023
Lab Number : **02593314** **Diagnosed** : 02 Nov 2023
Unique Number : 5670393 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV100, VI)

Lakeshore Gold Timmins West
 Timmins, ON
 CA
 Contact: Adam Koscielak
 adam.koscielak@HFSinclair.com
 T:
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.