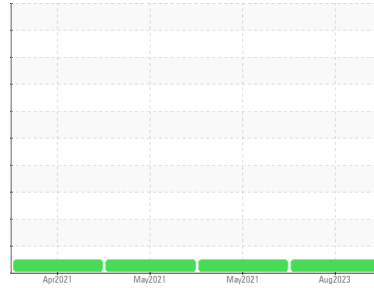




OIL ANALYSIS REPORT

Area
Haul Truck
Machine Id
HT2404
Component
Transmission (Manual)
Fluid
PETRO CANADA DURATRAN (40 LTR)

Sample Rating Trend



DIAGNOSIS

- Recommendation**
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**
The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0050650	PC0047197	PC0047172
Sample Date	Client Info	31 Aug 2023	31 May 2021	27 May 2021
Machine Age	hrs Client Info	5529	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>200	16	6	7
Chromium ppm ASTM D5185(m)	>5	<1	0	<1
Nickel ppm ASTM D5185(m)	>5	<1	<1	<1
Titanium ppm ASTM D5185(m)		<1	<1	<1
Silver ppm ASTM D5185(m)	>7	0	<1	<1
Aluminum ppm ASTM D5185(m)	>25	3	2	2
Lead ppm ASTM D5185(m)	>45	0	<1	<1
Copper ppm ASTM D5185(m)	>225	3	2	12
Tin ppm ASTM D5185(m)	>10	0	<1	0
Antimony ppm ASTM D5185(m)		0	<1	0
Vanadium ppm ASTM D5185(m)		0	0	0
Beryllium ppm ASTM D5185(m)		0	0	0
Cadmium ppm ASTM D5185(m)		0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	110	76	71	91
Barium ppm ASTM D5185(m)	0.0	0	<1	<1
Molybdenum ppm ASTM D5185(m)	0.0	9	3	<1
Manganese ppm ASTM D5185(m)	1	<1	<1	<1
Magnesium ppm ASTM D5185(m)	13	154	56	17
Calcium ppm ASTM D5185(m)	3610	2970	3072	3309
Phosphorus ppm ASTM D5185(m)	1192	1105	1024	1037
Zinc ppm ASTM D5185(m)	1455	1282	1289	1354
Sulfur ppm ASTM D5185(m)	2641	2565	2770	2660
Lithium ppm ASTM D5185(m)		<1	<1	<1

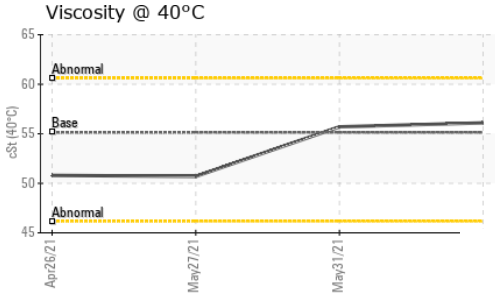
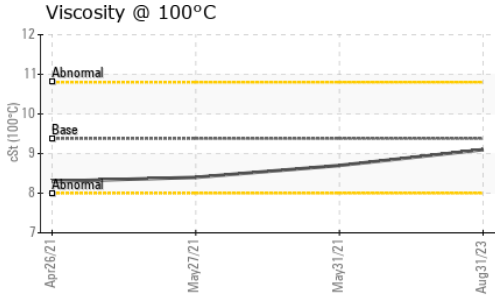
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>125	20	10	10
Sodium ppm ASTM D5185(m)		<1	7	7
Potassium ppm ASTM D5185(m)	>20	<1	1	1

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	LIGHT
Debris scalar Visual*	NONE	NONE	VLITE	LIGHT
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*		NEG	NEG	NEG

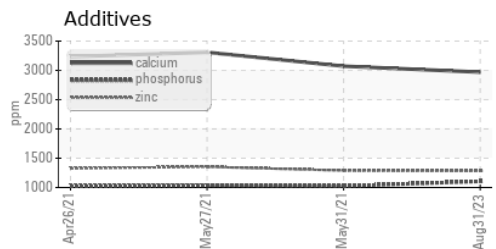
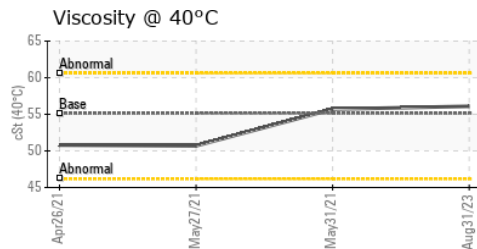
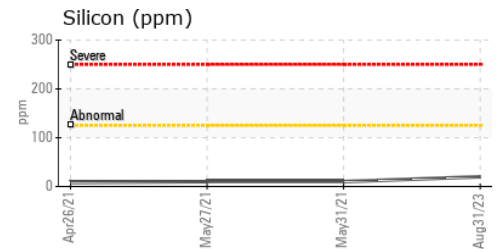
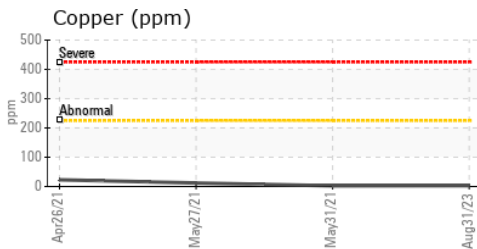
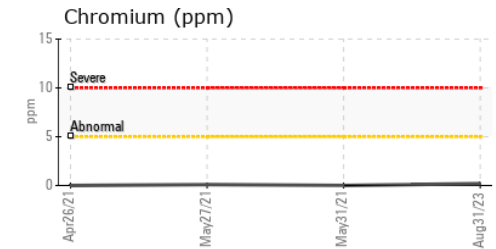
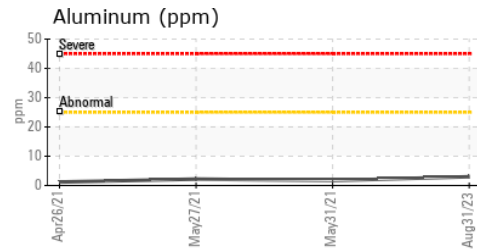
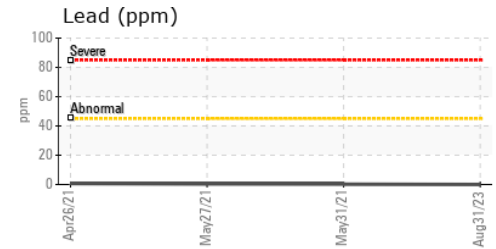
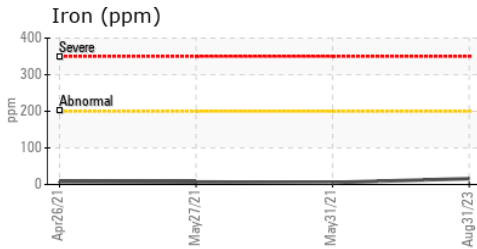
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	56.1	55.7	50.7
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	9.1	8.7	8.4
Viscosity Index (VI)	Scale	ASTM D2270*	153	142	132	140

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0050650 **Received** : 18 Sep 2023
Lab Number : 02583185 **Diagnosed** : 19 Sep 2023
Unique Number : 5644250 **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.