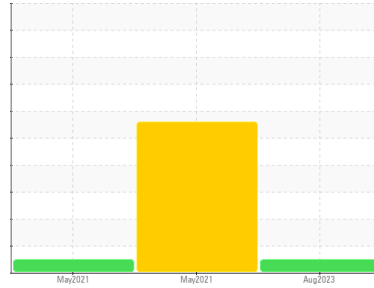




OIL ANALYSIS REPORT

Area
Haul Truck
Machine Id
HT2404
Component
Rear Differential
Fluid
PETRO CANADA TRAXON 85W140 (35 LTR)

Sample Rating Trend



NORMAL



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 oil.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	PC0047173	PC0047201	PC0047171	
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	ABNORMAL	NORMAL	

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >500	118	42	225
Chromium	ppm	ASTM D5185(m) >10	<1	<1	1
Nickel	ppm	ASTM D5185(m) >10	<1	0	<1
Titanium	ppm	ASTM D5185(m)	<1	<1	0
Silver	ppm	ASTM D5185(m)	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >25	3	2	<1
Lead	ppm	ASTM D5185(m) >25	0	▲ 13	<1
Copper	ppm	ASTM D5185(m) >100	8	▲ 413	8
Tin	ppm	ASTM D5185(m) >10	0	▲ 19	0
Antimony	ppm	ASTM D5185(m) >5	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	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 243	47	46	40
Barium	ppm	ASTM D5185(m) 0	4	<1	32
Molybdenum	ppm	ASTM D5185(m)	<1	▲ 28	0
Manganese	ppm	ASTM D5185(m)	1	<1	2
Magnesium	ppm	ASTM D5185(m) 0	2	▲ 461	<1
Calcium	ppm	ASTM D5185(m) 0	35	▲ 2135	7
Phosphorus	ppm	ASTM D5185(m) 988	737	994	695
Zinc	ppm	ASTM D5185(m) 0	16	▲ 1209	12
Sulfur	ppm	ASTM D5185(m) 24530	23620	▲ 2771	20564
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

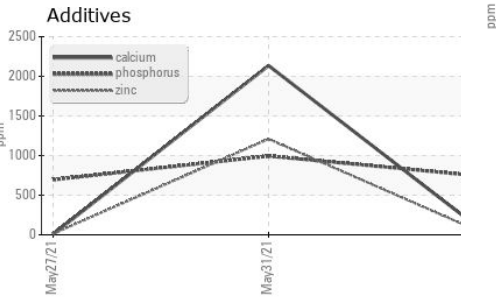
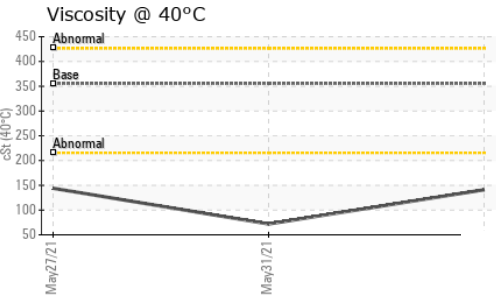
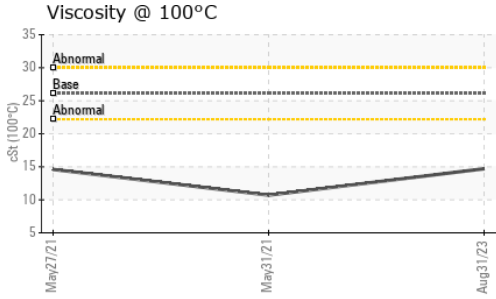
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >75	14	9	3
Sodium	ppm	ASTM D5185(m)	<1	5	<1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1

VISUAL

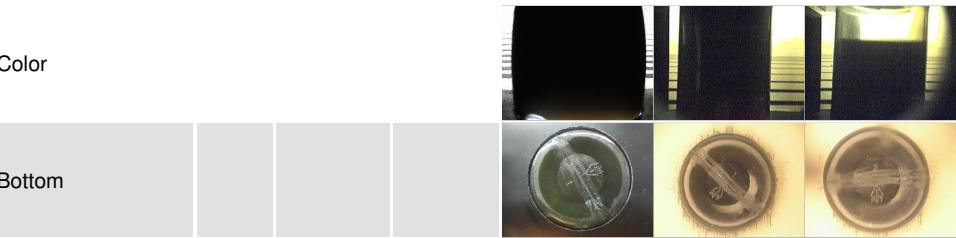
method	limit/base	current	history1	history2	
White Metal	scalar	Visual* NONE	NONE	VLITE	LTMOD
Yellow Metal	scalar	Visual* NONE	NONE	NONE	NONE
Precipitate	scalar	Visual* NONE	NONE	NONE	NONE
Silt	scalar	Visual* NONE	NONE	VLITE	NONE
Debris	scalar	Visual* NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual* NONE	NONE	NONE	NONE
Appearance	scalar	Visual* NORML	NORML	NORML	NORML
Odor	scalar	Visual* NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual* >.2	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

OIL ANALYSIS REPORT

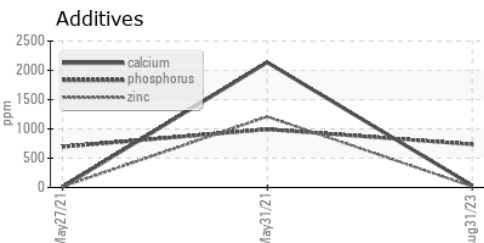
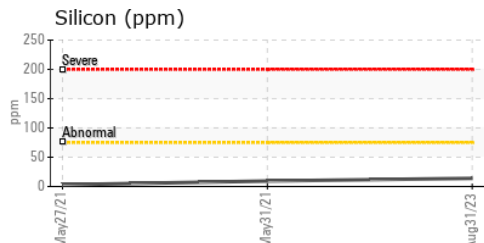
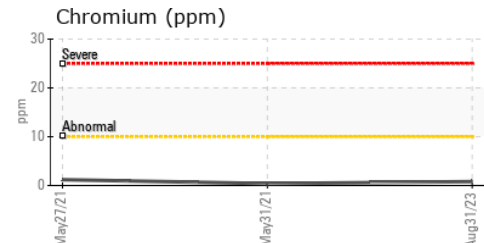
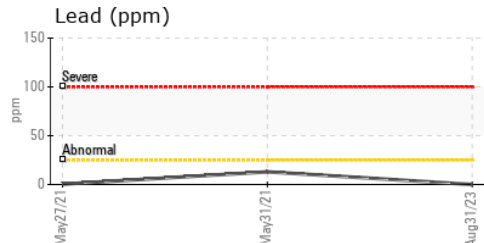
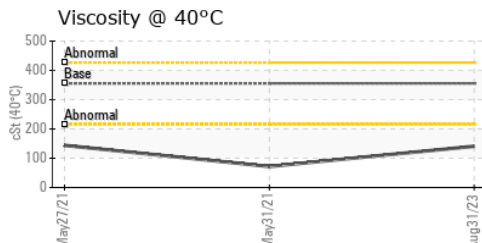
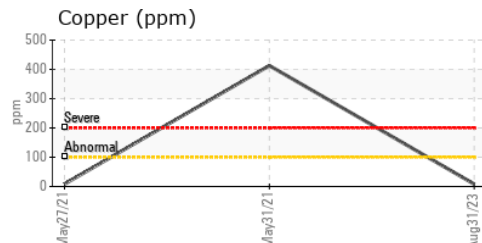
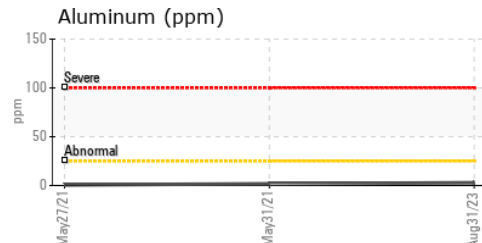
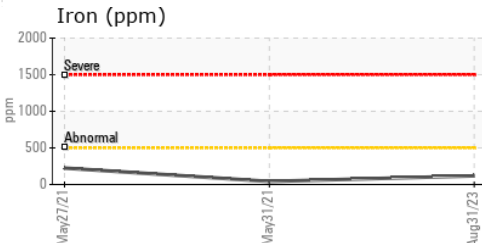


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	355.4	141	▲ 71.9	144
Visc @ 100°C	cSt	ASTM D7279(m)	26.1	14.7	▲ 10.7	14.6
Viscosity Index (VI)	Scale	ASTM D2270*	97	103	▲ 136	99

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0047173 **Received** : 18 Sep 2023
Lab Number : 02583282 **Diagnosed** : 19 Sep 2023
Unique Number : 5644347 **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.