

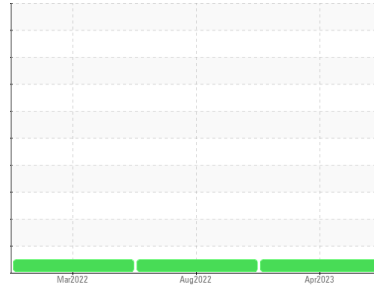
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Scoop 6 Yard
Machine Id
LHD6027
Component
Rear Right Wheel Hub
Fluid
PETRO CANADA TRAXON 80W90 (4 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 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	history 1	history 2
Sample Number	Client Info	PC0048006	PC0048522	PC0046585
Sample Date	Client Info	22 Apr 2023	15 Aug 2022	25 Mar 2022
Machine Age	hrs Client Info	0	3697	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm	ASTM D5185(m) >500	36	69	181
Chromium ppm	ASTM D5185(m) >8	<1	<1	1
Nickel ppm	ASTM D5185(m) >5	<1	<1	<1
Titanium ppm	ASTM D5185(m)	0	0	0
Silver ppm	ASTM D5185(m)	0	<1	0
Aluminum ppm	ASTM D5185(m) >5	<1	<1	1
Lead ppm	ASTM D5185(m) >5	0	<1	<1
Copper ppm	ASTM D5185(m) >50	3	6	13
Tin ppm	ASTM D5185(m)	0	0	<1
Antimony ppm	ASTM D5185(m) >5	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	history 1	history 2
Boron ppm	ASTM D5185(m) 243	40	30	3
Barium ppm	ASTM D5185(m) 1	10	105	344
Molybdenum ppm	ASTM D5185(m)	<1	<1	<1
Manganese ppm	ASTM D5185(m)	1	2	6
Magnesium ppm	ASTM D5185(m) 2	3	2	<1
Calcium ppm	ASTM D5185(m) 6	9	9	13
Phosphorus ppm	ASTM D5185(m) 987	690	835	1190
Zinc ppm	ASTM D5185(m) 1	11	11	22
Sulfur ppm	ASTM D5185(m) 21530	21404	24424	28528
Lithium ppm	ASTM D5185(m)	<1	<1	<1

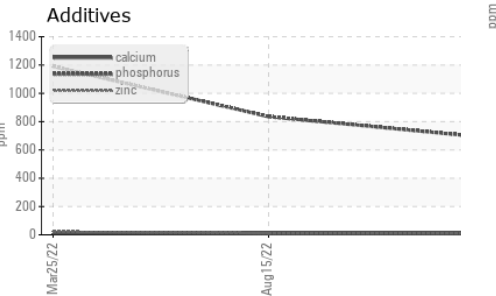
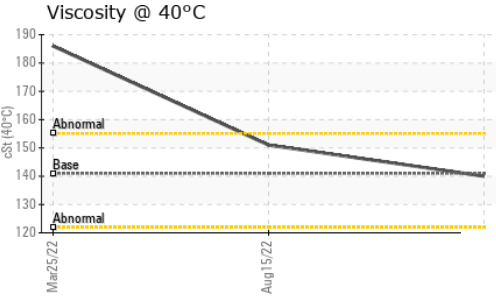
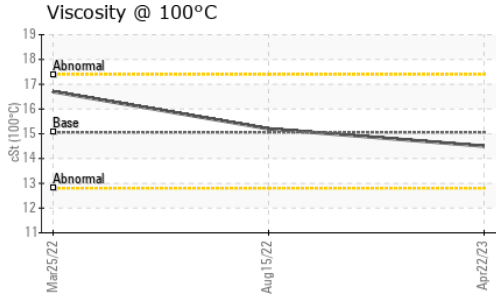
CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm	ASTM D5185(m) >25	2	3	6
Sodium ppm	ASTM D5185(m)	<1	2	4
Potassium ppm	ASTM D5185(m) >20	<1	0	<1

VISUAL

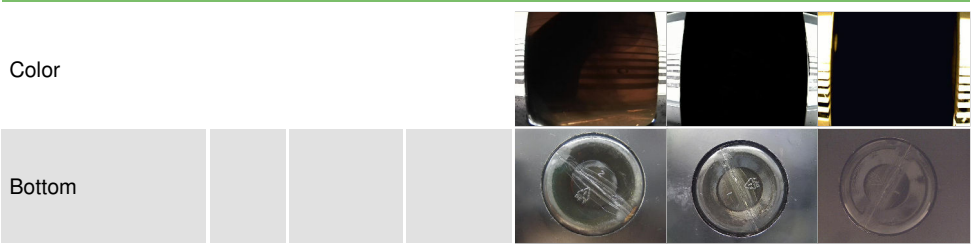
method	limit/base	current	history 1	history 2
White Metal scalar	Visual* NONE	NONE	LIGHT	VLITE
Yellow Metal scalar	Visual* NONE	NONE	NONE	NONE
Precipitate scalar	Visual* NONE	NONE	NONE	NONE
Silt scalar	Visual* NONE	VLITE	LIGHT	NONE
Debris scalar	Visual* NONE	NONE	NONE	NONE
Sand/Dirt scalar	Visual* NONE	NONE	NONE	NONE
Appearance scalar	Visual* NORML	NORML	NORML	NORML
Odor scalar	Visual* NORML	NORML	NORML	NORML
Emulsified Water scalar	Visual* >0.2	NEG	NEG	NEG
Free Water scalar	Visual*	NEG	NEG	NEG

OIL ANALYSIS REPORT

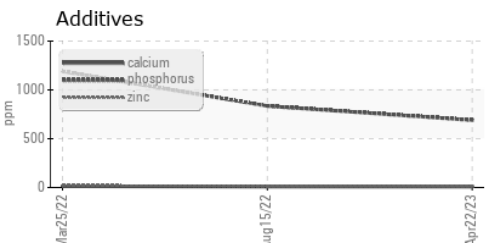
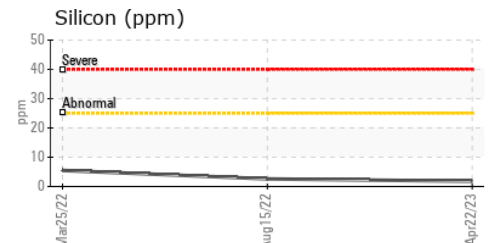
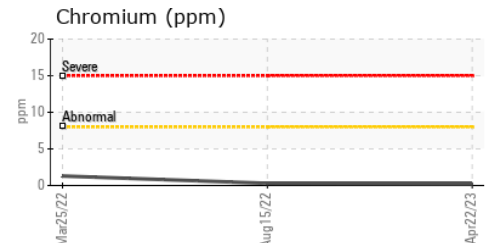
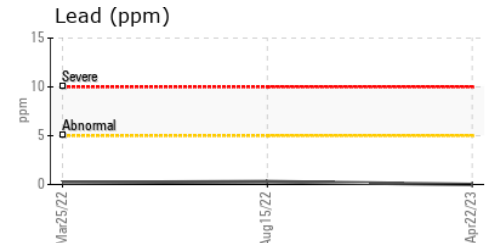
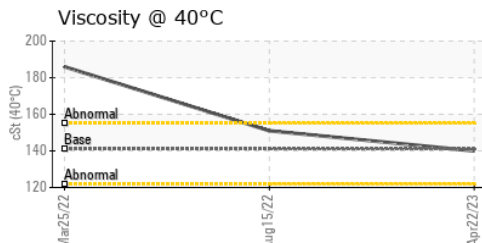
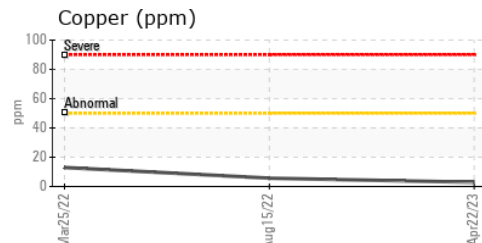
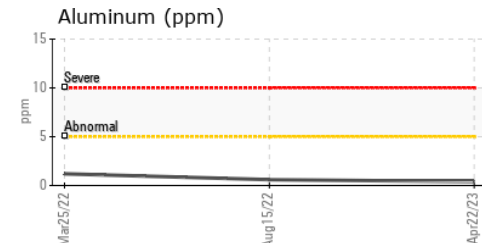
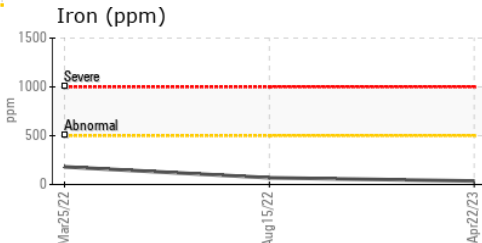


FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	140	151	186
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.5	15.2	16.7
Viscosity Index (VI)	Scale	ASTM D2270*	108	102	101	94

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0048006 **Received** : 04 Jul 2023
Lab Number : **02567837** **Diagnosed** : 04 Jul 2023
Unique Number : 5604883 **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.