

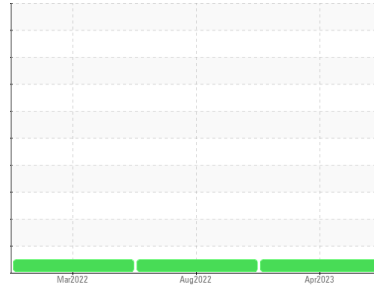
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Scoop 6 Yard
Machine Id
LHD6027
Component
Rear Left 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	PC0048004	PC0048515	PC0046573
Sample Date	Client Info	20 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	38	72	181
Chromium ppm ASTM D5185(m)	>8	<1	<1	1
Nickel ppm ASTM D5185(m)	>5	<1	0	<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	0	0
Copper ppm ASTM D5185(m)	>50	4	6	13
Tin ppm ASTM D5185(m)		0	0	<1
Antimony ppm ASTM D5185(m)	>5	0	0	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	history 1	history 2
Boron ppm ASTM D5185(m)	243	40	30	3
Barium ppm ASTM D5185(m)	1	10	106	346
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	10	13
Phosphorus ppm ASTM D5185(m)	987	706	844	1176
Zinc ppm ASTM D5185(m)	1	10	13	22
Sulfur ppm ASTM D5185(m)	21530	21800	24378	28796
Lithium ppm ASTM D5185(m)		<1	<1	<1

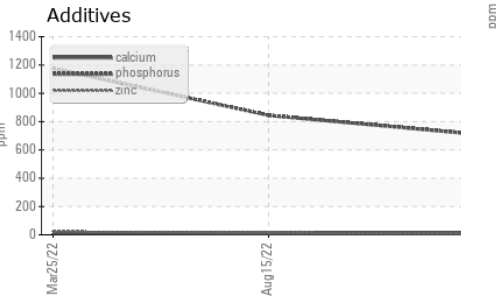
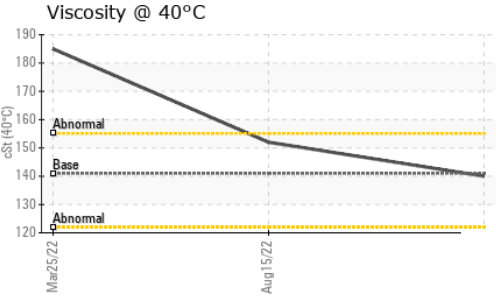
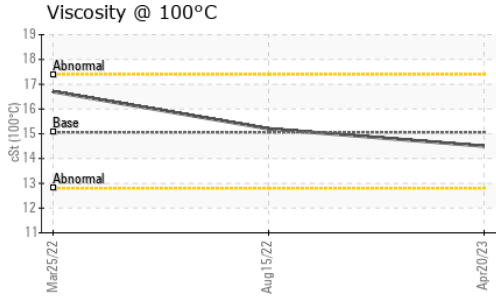
CONTAMINANTS

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

VISUAL

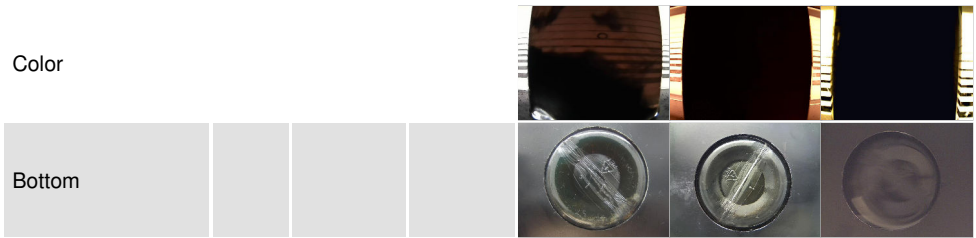
method	limit/base	current	history 1	history 2
White Metal scalar Visual*	NONE	NONE	NONE	VLITE
Yellow Metal scalar Visual*	NONE	NONE	NONE	NONE
Precipitate scalar Visual*	NONE	NONE	NONE	NONE
Silt scalar Visual*	NONE	VLITE	LIGHT	NONE
Debris scalar Visual*	NONE	NONE	NONE	NONE
Sand/Dirt scalar Visual*	NONE	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

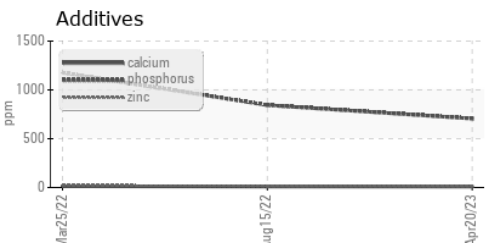
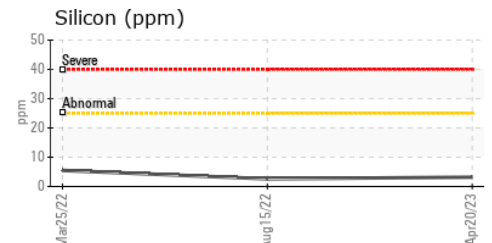
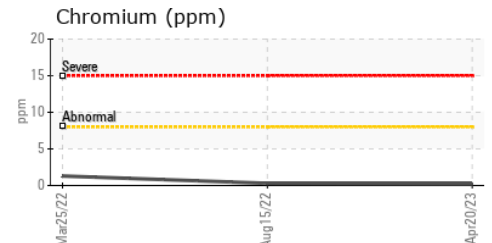
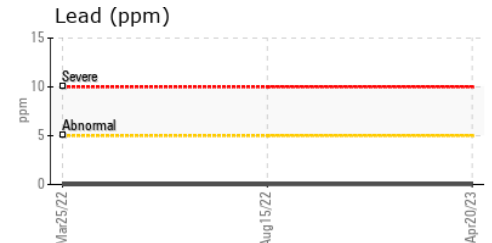
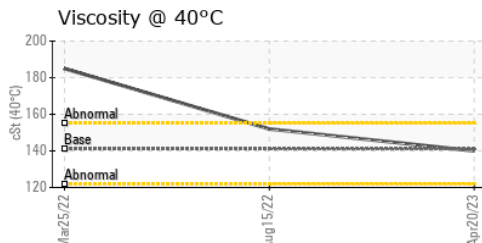
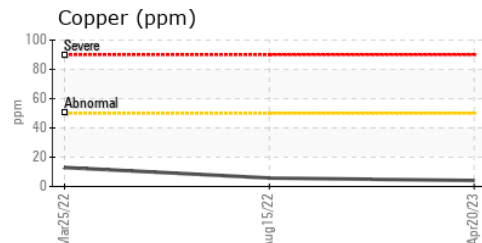
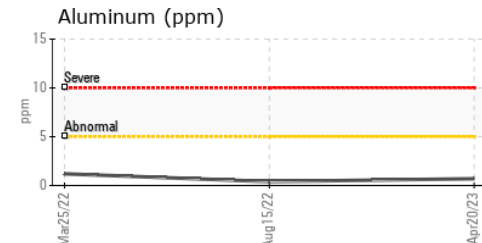
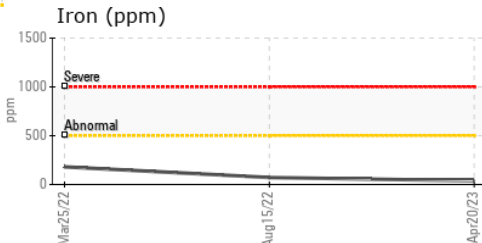


FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	140	152	185
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.5	15.2	16.7
Viscosity Index (VI)	Scale	ASTM D2270*	108	102	100	94

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. : PC0048004 **Received** : 04 Jul 2023
Lab Number : 02567841 **Diagnosed** : 04 Jul 2023
Unique Number : 5604887 **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.