

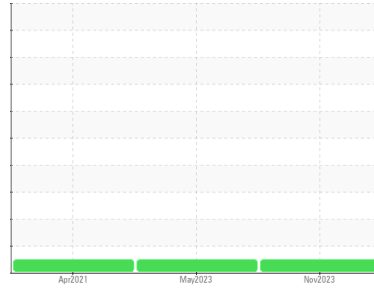
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Scoop 6 Yard
Machine Id
LHD6102
Component
Front Differential
Fluid
PETRO CANADA TRAXON 80W90 (18 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	history1	history2
Sample Number	Client Info	PC0075098	PC0066832	PC0046614
Sample Date	Client Info	02 Nov 2023	11 May 2023	27 Apr 2021
Machine Age	hrs Client Info	3868	2662	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)	>500	424	162	237
Chromium ppm ASTM D5185(m)	>10	3	<1	1
Nickel ppm ASTM D5185(m)	>10	1	<1	<1
Titanium ppm ASTM D5185(m)		0	0	<1
Silver ppm ASTM D5185(m)		<1	0	<1
Aluminum ppm ASTM D5185(m)	>25	8	1	10
Lead ppm ASTM D5185(m)	>25	1	<1	3
Copper ppm ASTM D5185(m)	>100	41	31	77
Tin ppm ASTM D5185(m)	>10	<1	<1	3
Antimony ppm ASTM D5185(m)	>5	0	0	0
Vanadium ppm ASTM D5185(m)		0	0	<1
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	5	40	35
Barium ppm ASTM D5185(m)	1	<1	0	0
Molybdenum ppm ASTM D5185(m)		0	<1	<1
Manganese ppm ASTM D5185(m)		4	2	4
Magnesium ppm ASTM D5185(m)	2	4	3	7
Calcium ppm ASTM D5185(m)	6	121	35	26
Phosphorus ppm ASTM D5185(m)	987	599	903	610
Zinc ppm ASTM D5185(m)	1	70	26	23
Sulfur ppm ASTM D5185(m)	21530	19040	21330	19291
Lithium ppm ASTM D5185(m)		<1	<1	<1

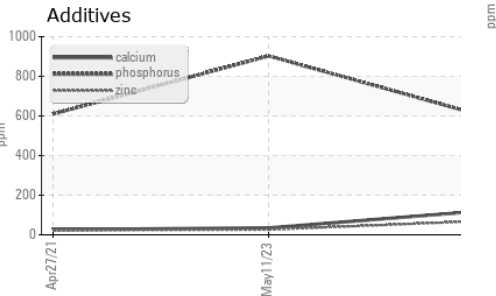
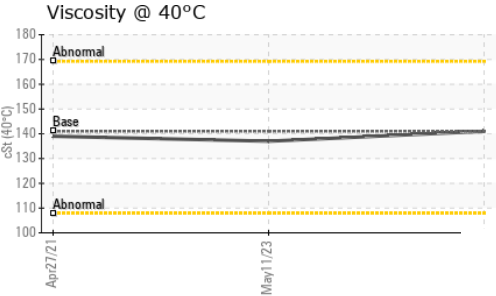
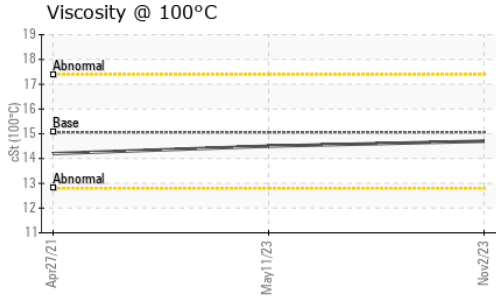
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>75	34	5	36
Sodium ppm ASTM D5185(m)		4	<1	7
Potassium ppm ASTM D5185(m)	>20	2	<1	4

VISUAL

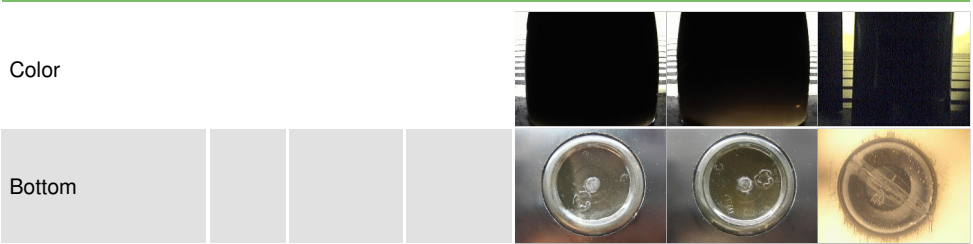
method	limit/base	current	history1	history2
White Metal scalar Visual*	NONE	VLITE	VLITE	VLITE
Yellow Metal scalar Visual*	NONE	NONE	NONE	NONE
Precipitate scalar Visual*	NONE	NONE	NONE	NONE
Silt scalar Visual*	NONE	NONE	NONE	VLITE
Debris scalar Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt scalar Visual*	NONE	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

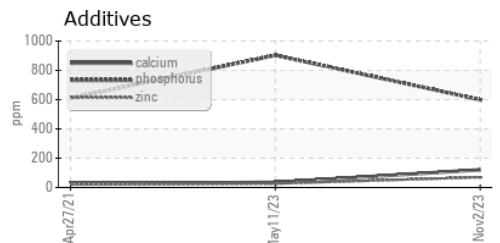
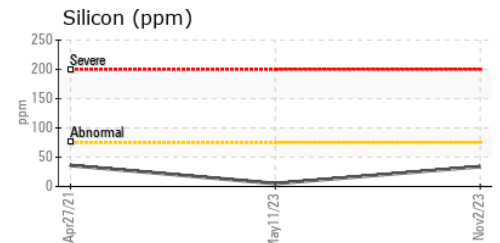
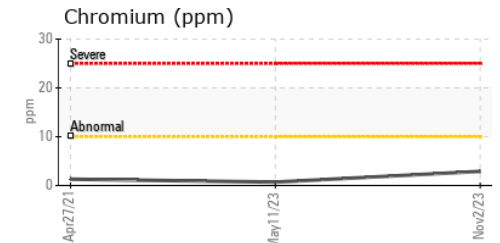
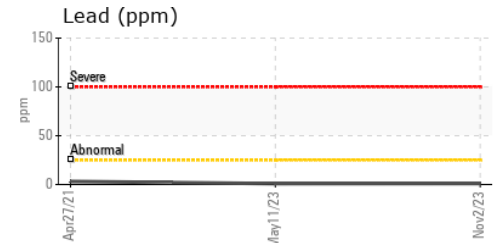
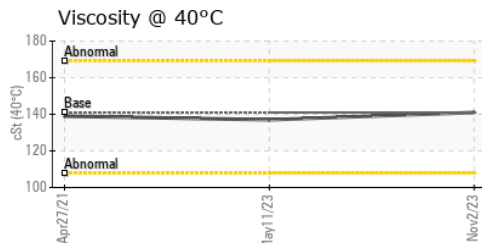
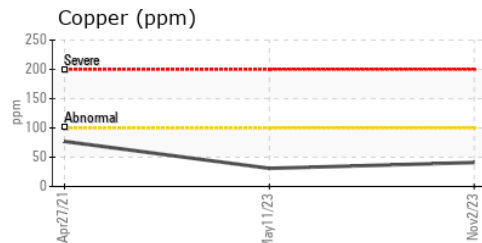
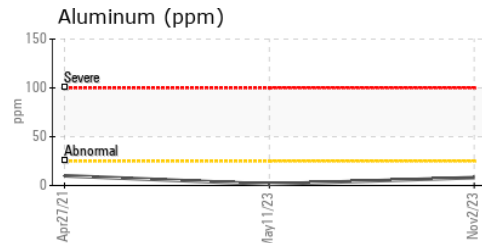
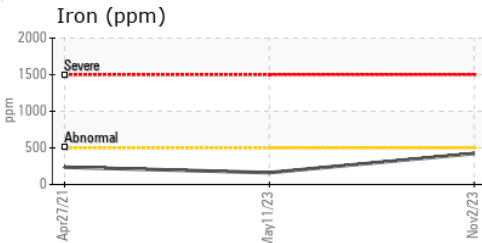


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	141	137	139
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.7	14.5	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	108	103	104	99

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. : PC0075098 **Received** : 14 Nov 2023
Lab Number : **02596310** **Diagnosed** : 14 Nov 2023
Unique Number : 5681390 **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.