



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L556 053602-1484

Component
Front Left Wheel Hub

Fluid
PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0278835	LH0237736	LH0270372
Sample Date		Client Info		11 Jan 2024	13 Oct 2023	14 Jul 2023
Machine Age	hrs	Client Info		7741	7226	6154
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		None	None	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	241	449	336
Chromium	ppm	ASTM D5185(m)	>8	1	3	3
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>5	1	1	<1
Lead	ppm	ASTM D5185(m)	>5	<1	2	2
Copper	ppm	ASTM D5185(m)	>50	35	64	65
Tin	ppm	ASTM D5185(m)		<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

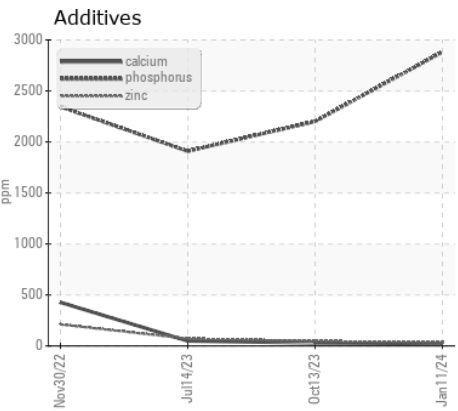
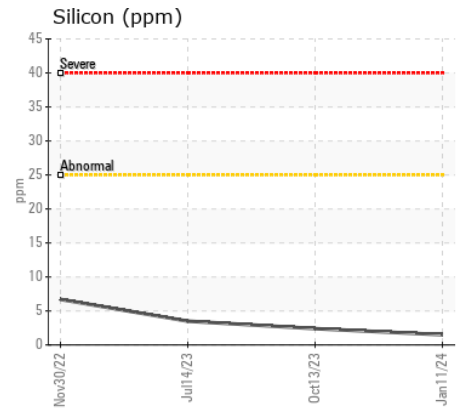
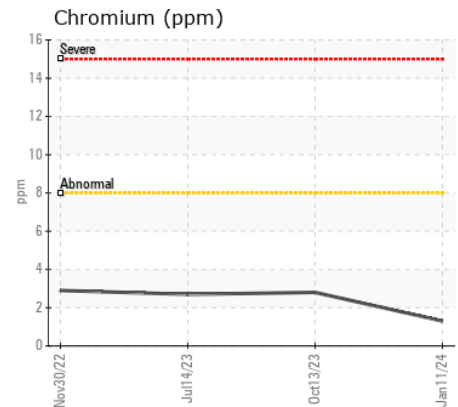
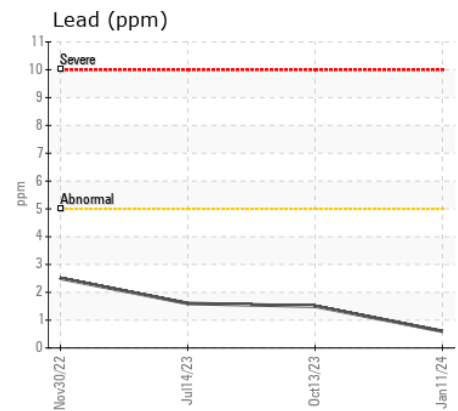
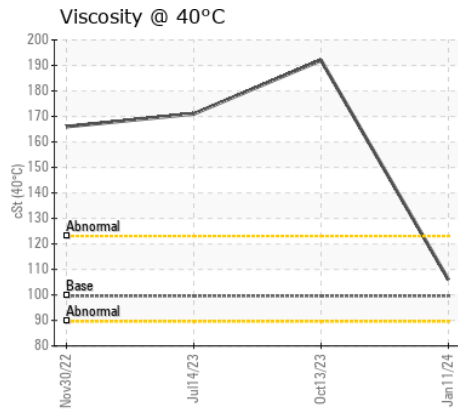
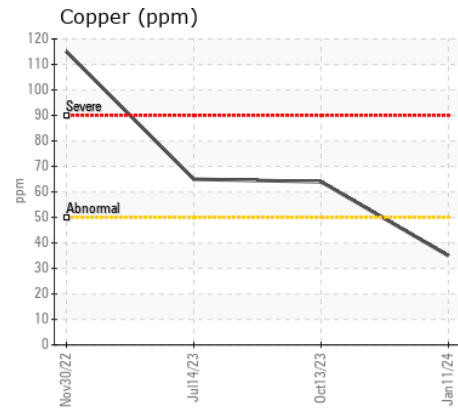
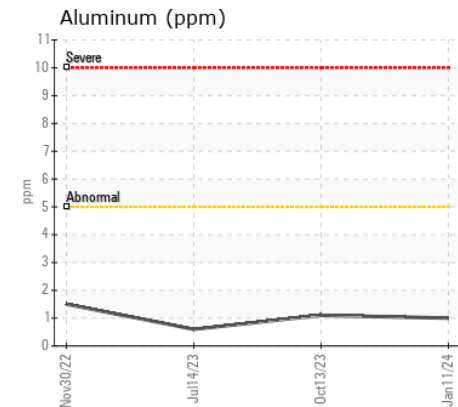
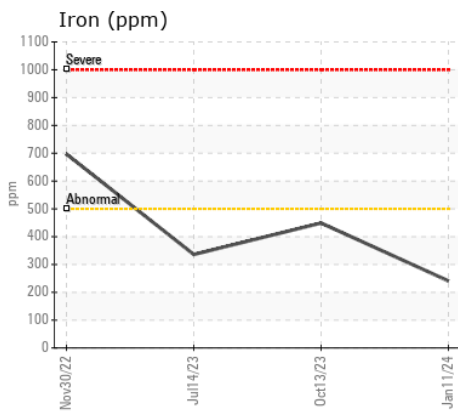
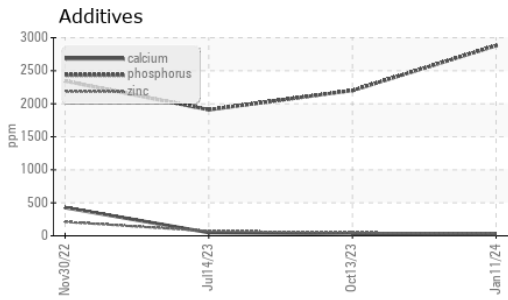
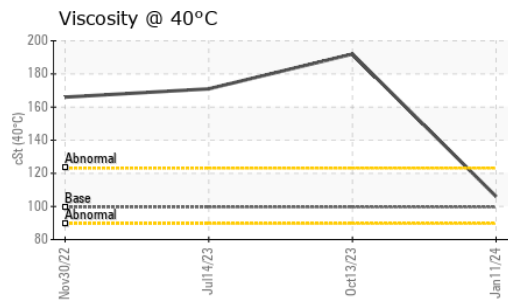
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	4
Potassium	ppm	ASTM D5185(m)	>20	2	0	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
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*	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		<1	2	<1
Boron	ppm	ASTM D5185(m)	328	71	3	6
Barium	ppm	ASTM D5185(m)	1	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		4	7	16
Manganese	ppm	ASTM D5185(m)		2	4	3
Magnesium	ppm	ASTM D5185(m)	1	2	2	2
Calcium	ppm	ASTM D5185(m)	7	24	30	49
Phosphorus	ppm	ASTM D5185(m)	1145	2881	2201	1909
Zinc	ppm	ASTM D5185(m)	3	36	46	71
Sulfur	ppm	ASTM D5185(m)	17909	21357	25973	24419
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	106	192	171



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **THOMAS CAVANAGH CONSTRUCTION LTD**
Sample No. : LH0278835 **Received** : 17 Jan 2024 **RR # 2, 9094 CAVANAGH ROAD**
Lab Number : 02609518 **Diagnosed** : 18 Jan 2024 **ASHTON, ON**
Unique Number : 5710604 **Diagnostician** : Kevin Marson **CA K0A 1B0**
Test Package : MOB 1 **Contact:** Keith

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.

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