



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

(351146)

Machine Id

LIEBHERR A918 131283-1508

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		LH0286699	LH0274424	LH0242423
Sample Date		Client Info		23 Jun 2024	18 Aug 2023	01 Nov 2022
Machine Age	hrs	Client Info		3983	2990	2002
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		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>650	59	78	114
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>4	0	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	1
Lead	ppm	ASTM D5185(m)	>4	<1	1	3
Copper	ppm	ASTM D5185(m)	>60	26	45	▲ 81
Tin	ppm	ASTM D5185(m)	>4	<1	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	LIGHT	LIGHT
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

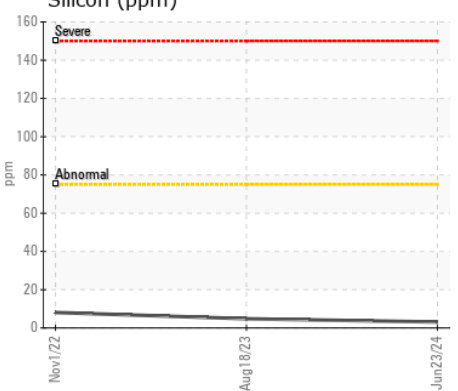
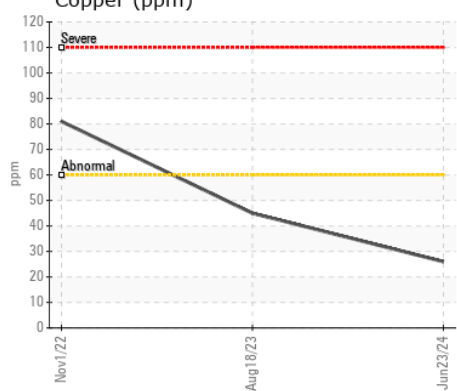
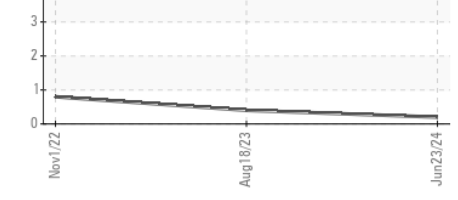
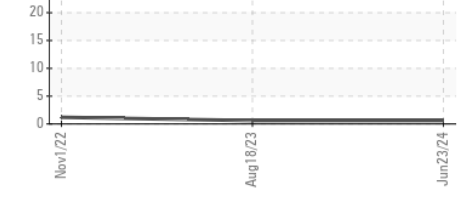
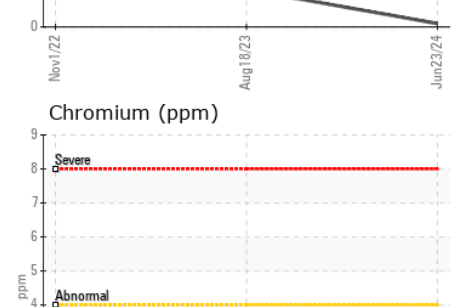
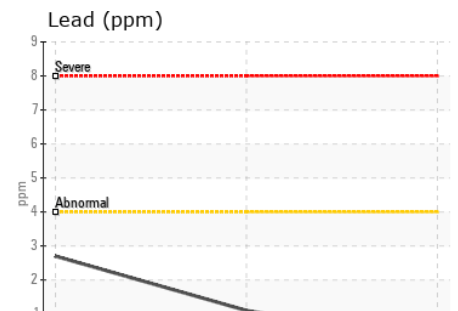
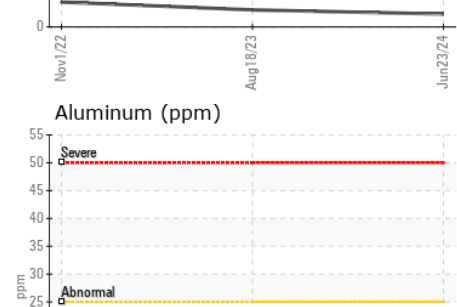
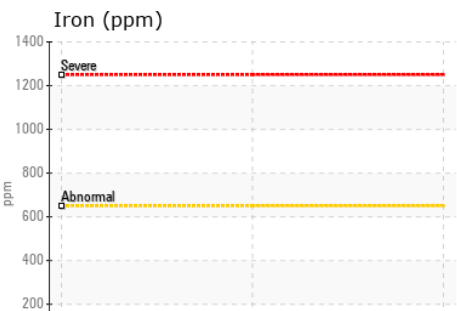
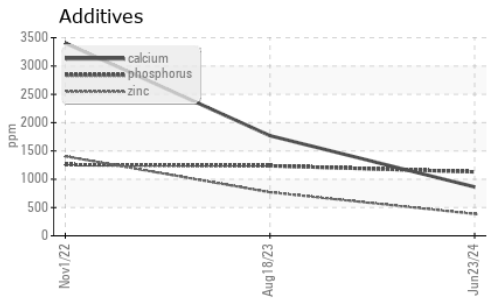
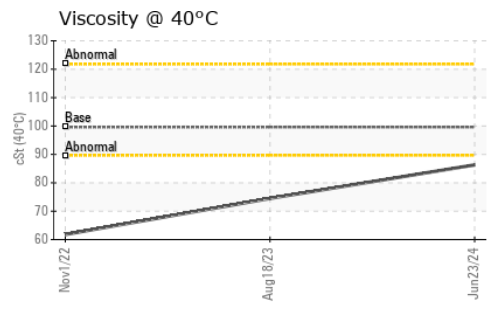
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	3	5	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	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

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)		9	15	21
Boron	ppm	ASTM D5185(m)	328	194	162	92
Barium	ppm	ASTM D5185(m)	1	4	4	8
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		<1	1	2
Magnesium	ppm	ASTM D5185(m)	1	5	8	10
Calcium	ppm	ASTM D5185(m)	7	864	1769	3405
Phosphorus	ppm	ASTM D5185(m)	1145	1130	1237	1257
Zinc	ppm	ASTM D5185(m)	3	385	769	1405
Sulfur	ppm	ASTM D5185(m)	17909	14811	10454	3267
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	86.3	74.5	61.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0286699
Lab Number : 02644227
Unique Number : 5801766
Test Package : MOB 1
Received : 26 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 27 Jun 2024 - Kevin Marson

THOMAS CAVANAGH CONSTRUCTION LTD
 RR # 2, 9094 CAVANAGH ROAD
 ASHTON, ON
 CA K0A 1B0
 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.

T: (613)257-4995
 F: (613)253-0071