



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH50M 150728-1216
Component
Rear Left Wheel Hub
Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (4 LTR)

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		LH0280934	LH0271872	LH0242075
Sample Date		Client Info		29 Apr 2024	09 Feb 2024	21 Nov 2023
Machine Age	hrs	Client Info		1514	1066	500
Oil Age	hrs	Client Info		488	0	500
Filter Age	hrs	Client Info		488	0	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	None	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>325	17	23	36
Chromium	ppm	ASTM D5185(m)	>3	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>4	0	<1	<1
Copper	ppm	ASTM D5185(m)	>75	29	23	22
Tin	ppm	ASTM D5185(m)	>3	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

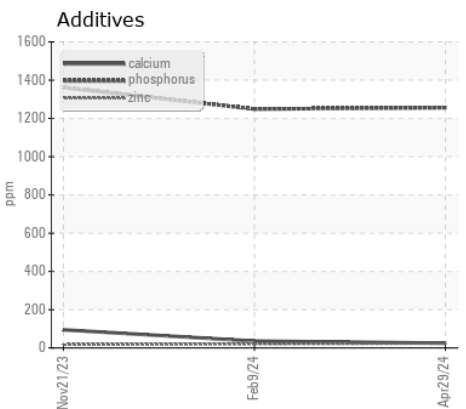
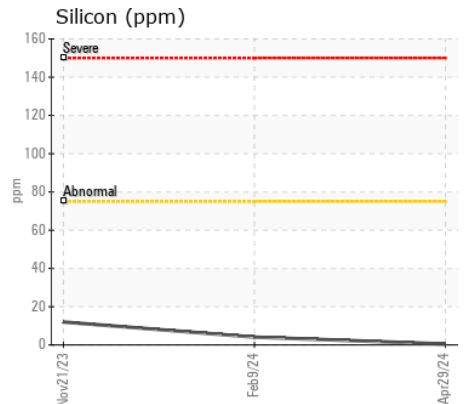
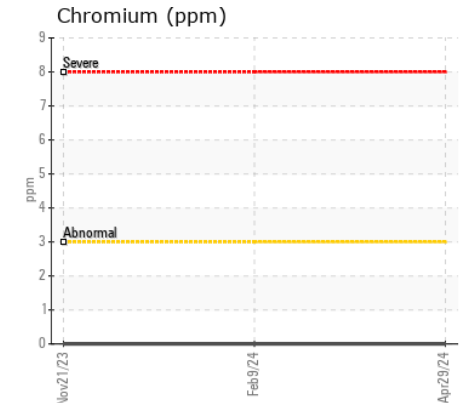
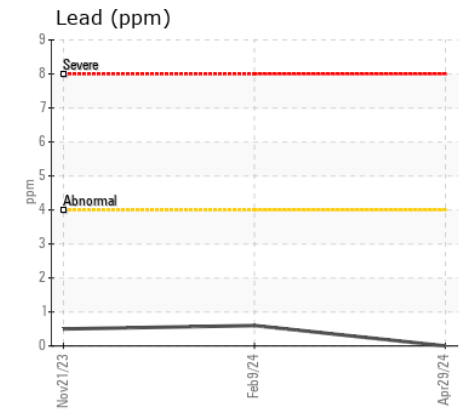
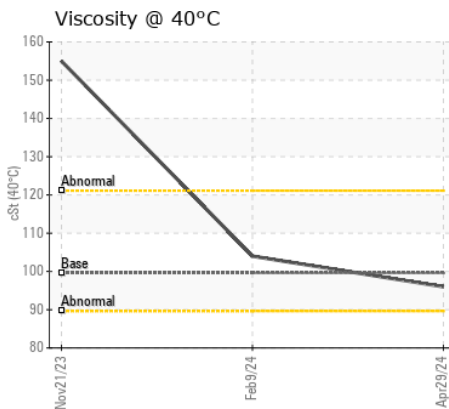
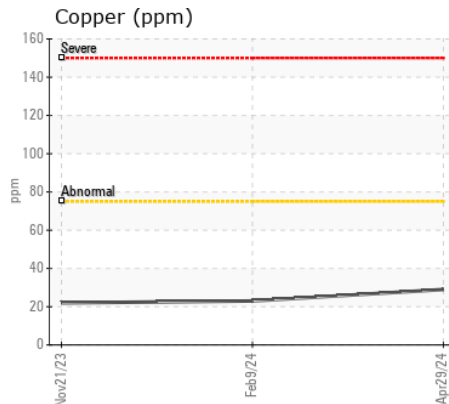
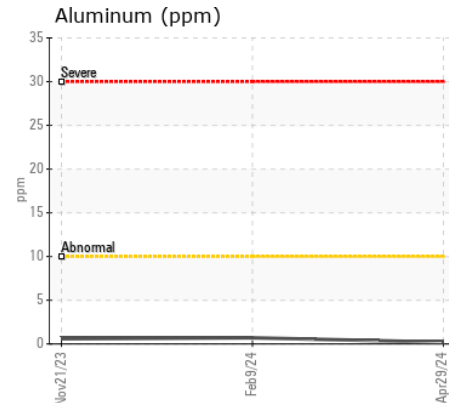
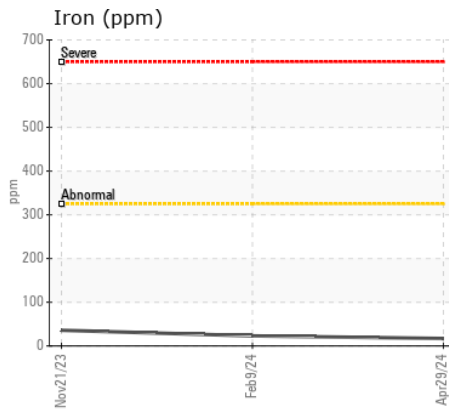
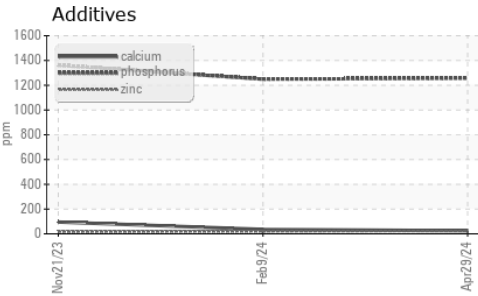
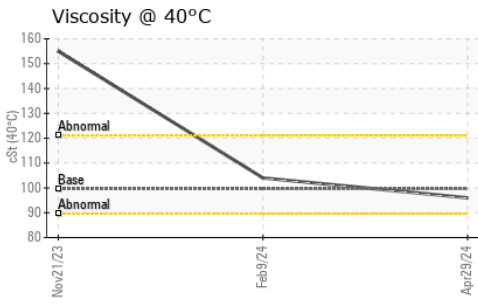
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<1	4	12
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)		<1	1	2
Boron	ppm	ASTM D5185(m)	328	306	233	7
Barium	ppm	ASTM D5185(m)	1	0	<1	1
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1	<1	1	<1
Calcium	ppm	ASTM D5185(m)	7	25	36	95
Phosphorus	ppm	ASTM D5185(m)	1145	1256	1249	1362
Zinc	ppm	ASTM D5185(m)	3	23	20	17
Sulfur	ppm	ASTM D5185(m)	17909	20841	19444	16818
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	96.0	104	155



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0280934
Lab Number : 02633626
Unique Number : 5774779
Test Package : MOB 1
Received : 06 May 2024
Tested : 06 May 2024
Diagnosed : 06 May 2024 - Wes Davis

ABC RECYCLING
 750C JACKSON RD
 NANAIMO, BC
 CA V9X 1J2

Contact: Jordie Richmond
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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.