



LIEBHERR

OIL ANALYSIS REPORT



Area

(336343)

Machine Id

LIEBHERR LH50M 124905-1216

Component

Swing Drive

Fluid

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

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE

ABNORMAL

NORMAL

RECOMMENDATION

We advise that you check for visible metal particles in the oil. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0290548	LH0182492	LH0182478
Sample Date		Client Info		27 Jun 2024	29 Apr 2021	11 Mar 2021
Machine Age	hrs	Client Info		22075	4100	3062
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		None	None	N/A
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

Lead ppm levels are severe. Copper ppm levels are abnormal. Light concentration of visible metal present. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185(m)	>1450	224	57	38
Chromium	ppm	ASTM D5185(m)	>11	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>4	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>4	▲ 17	3	2
Copper	ppm	ASTM D5185(m)	>542	▲ 594	122	63
Tin	ppm	ASTM D5185(m)	>38	15	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	▲ LIGHT	NONE	NONE

CONTAMINATION

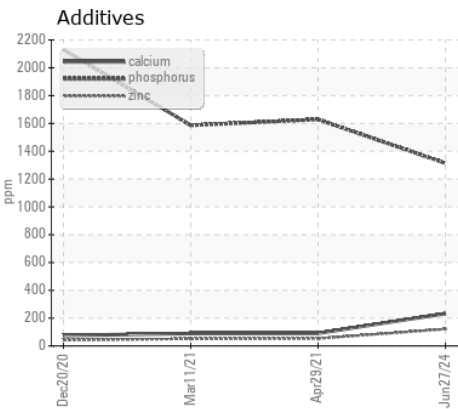
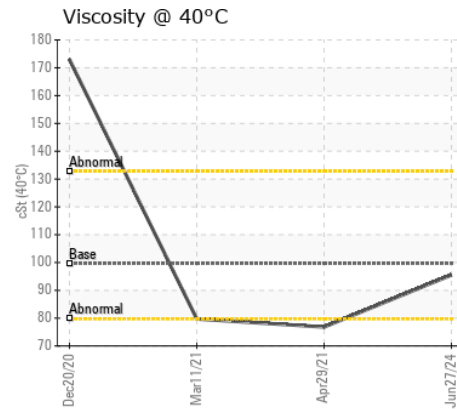
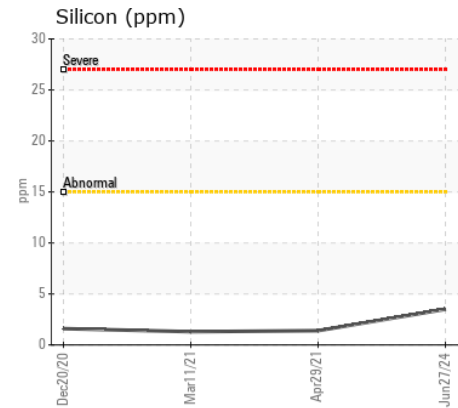
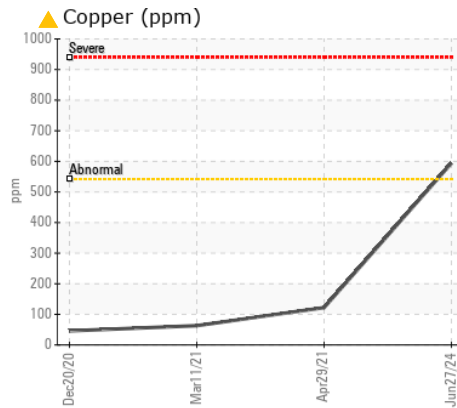
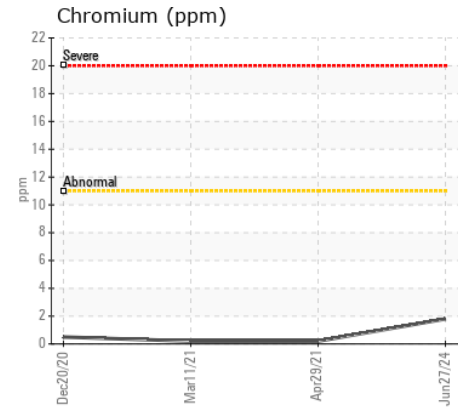
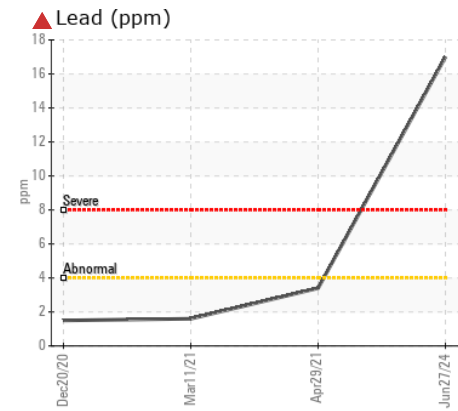
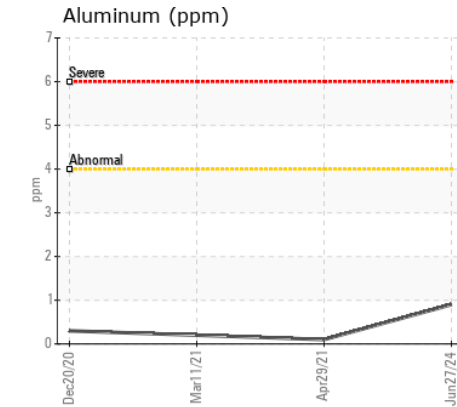
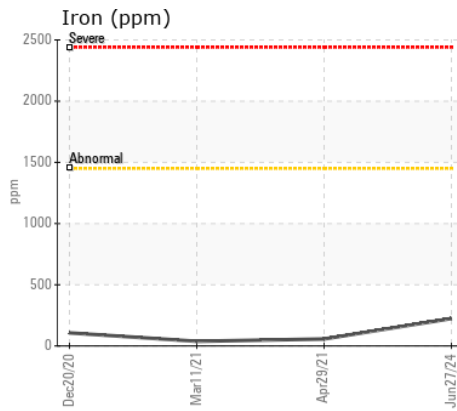
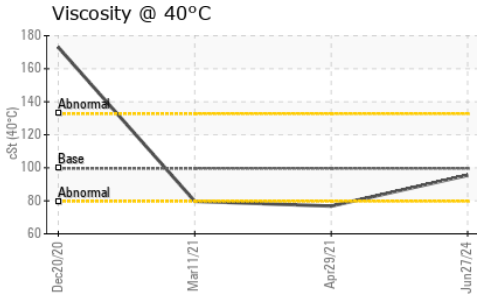
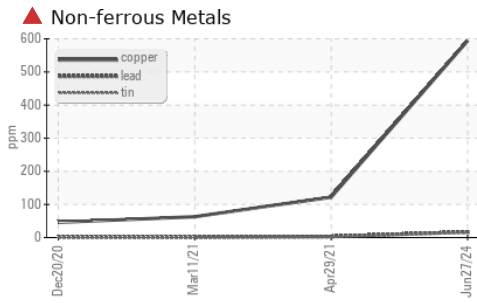
Light concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	▲ LIGHT	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

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		<1	4	5
Boron	ppm	ASTM D5185(m)	328	249	18	17
Barium	ppm	ASTM D5185(m)	1	<1	3	3
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		2	<1	<1
Magnesium	ppm	ASTM D5185(m)	1	1	<1	<1
Calcium	ppm	ASTM D5185(m)	7	233	91	90
Phosphorus	ppm	ASTM D5185(m)	1145	1314	1628	1586
Zinc	ppm	ASTM D5185(m)	3	121	53	51
Sulfur	ppm	ASTM D5185(m)	17909	20691	29414	29543
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	95.5	76.8	79.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0290548 **Received** : 04 Jul 2024
Lab Number : 02645549 **Tested** : 10 Jul 2024
Unique Number : 5803088 **Diagnosed** : 10 Jul 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch)

CANFOR
 101-161 E 4TH AVE
 VANCOUVER, BC
 CA V5T 3C1
 Contact: Service Manager

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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