



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**LIEBHERR LH50M 084832-1203**

Component  
**Swing Drive**

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

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0281243</b>	LH0259868	LH0213910
Sample Date		Client Info		<b>23 Apr 2024</b>	02 May 2023	09 Jun 2022
Machine Age	hrs	Client Info		<b>19219</b>	18000	16044
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1450	<b>1120</b>	37	468
Chromium	ppm	ASTM D5185(m)	>11	<b>10</b>	0	3
Nickel	ppm	ASTM D5185(m)	>3	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>4	<b>4</b>	2	4
Copper	ppm	ASTM D5185(m)	>542	<b>169</b>	76	113
Tin	ppm	ASTM D5185(m)	>38	<b>5</b>	2	5
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

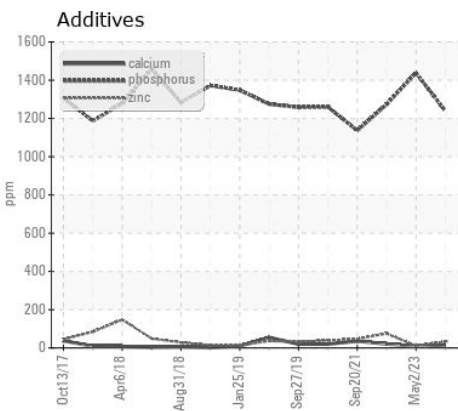
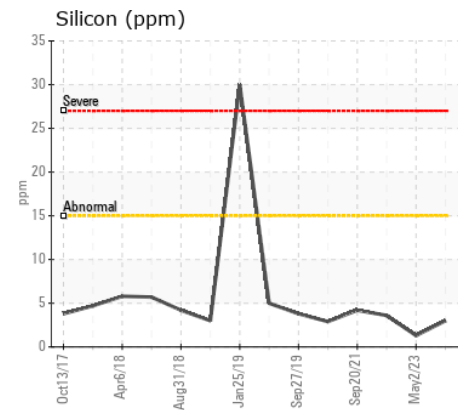
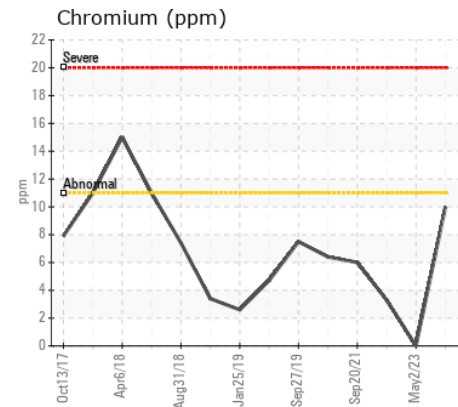
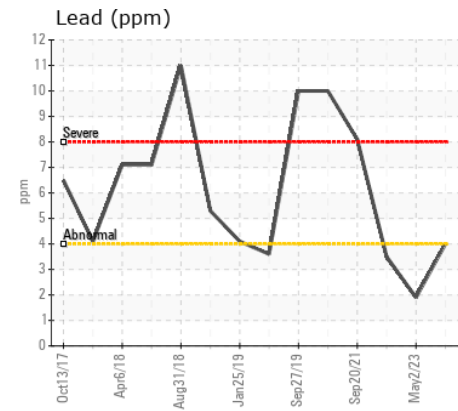
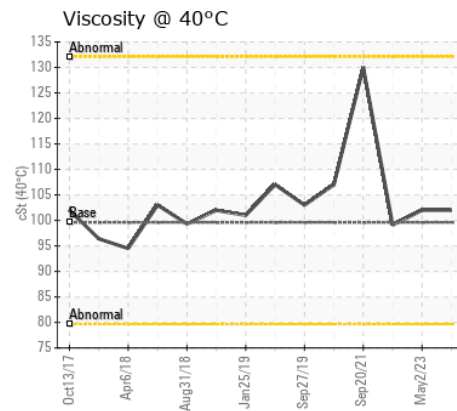
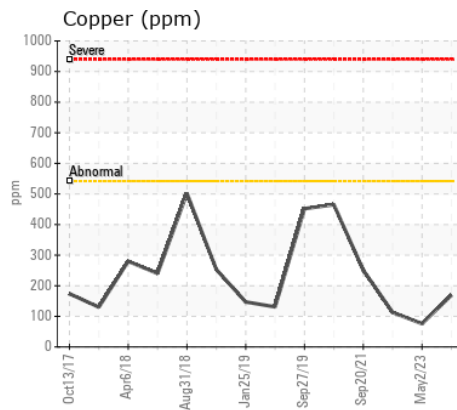
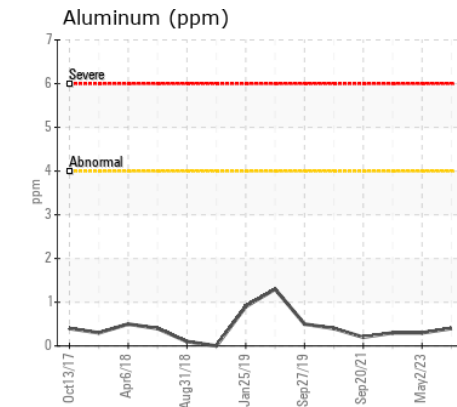
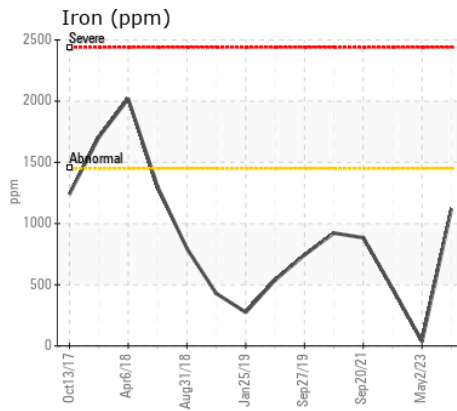
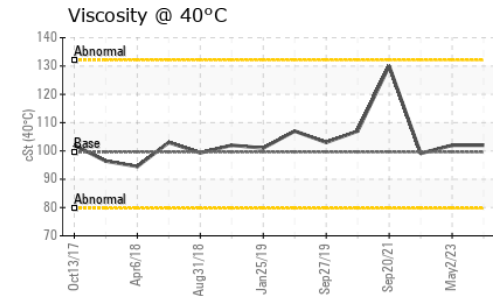
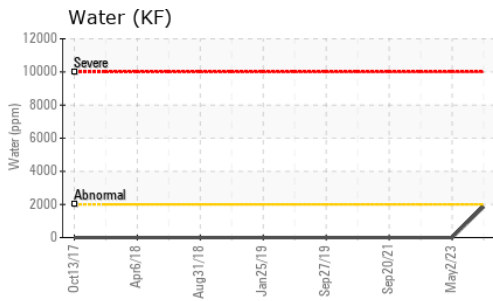
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>3</b>	1	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304*	>0.2	<b>0.185</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>1859</b>	---	---
Silt	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	LIGHT
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	<1
Boron	ppm	ASTM D5185(m)	328	<b>143</b>	247	85
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>9</b>	<1	4
Magnesium	ppm	ASTM D5185(m)	1	<b>4</b>	2	2
Calcium	ppm	ASTM D5185(m)	7	<b>16</b>	9	21
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1239</b>	1438	1274
Zinc	ppm	ASTM D5185(m)	3	<b>33</b>	11	75
Sulfur	ppm	ASTM D5185(m)	17909	<b>20773</b>	21733	20778
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>102</b>	102	99.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0281243 **Received** : 13 May 2024  
**Lab Number** : 02635040 **Tested** : 14 May 2024  
**Unique Number** : 5776193 **Diagnosed** : 14 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KF )

**Eacom Timber Corporation**  
 100 Old Nairn Centre Road  
 Nairn Centre, ON  
 CA P0M 2L0  
 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.

T:  
F: