



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area

**(360376)**

Machine Id

**LIEBHERR LH40M 134365-1215**

Component

**Swing Drive**

Fluid

**PETRO CANADA TRAXON SYNTHETIC 75W90 (14 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		<b>LH0288361</b>	LH0276900	LH0193117
Sample Date		Client Info		<b>31 May 2024</b>	23 Sep 2023	30 May 2022
Machine Age	hrs	Client Info		<b>4811</b>	3785	1166
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)	>350	<b>155</b>	<1	397
Chromium	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	2
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185(m)	>300	<b>58</b>	<1	70
Tin	ppm	ASTM D5185(m)	>15	<b>2</b>	2	3
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

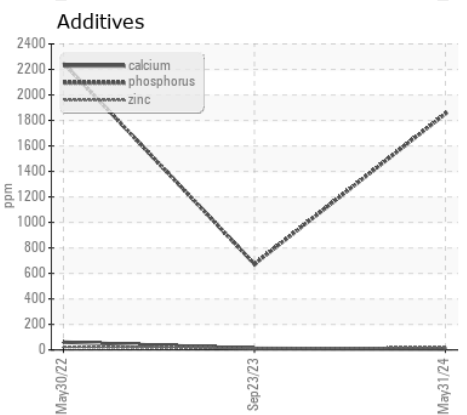
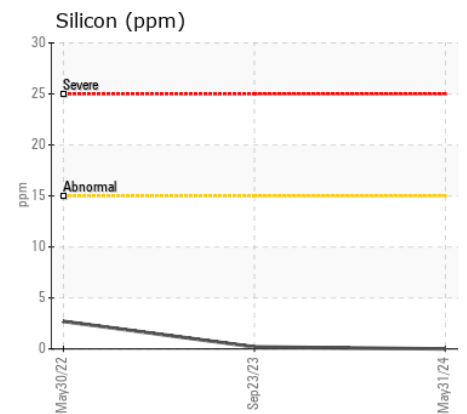
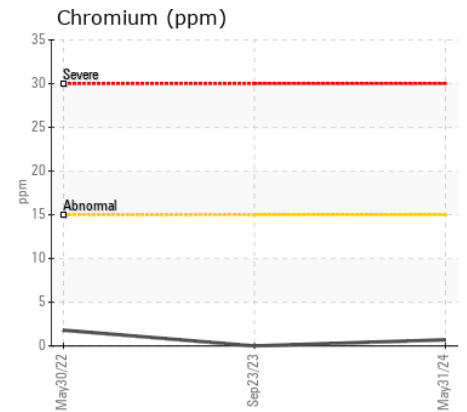
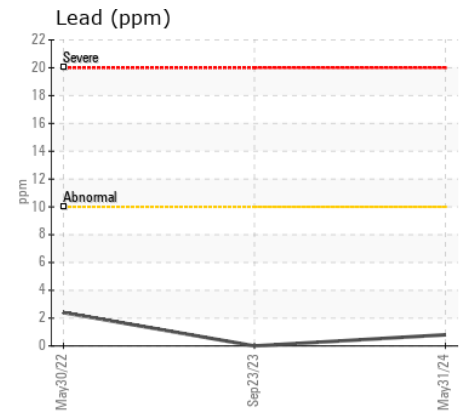
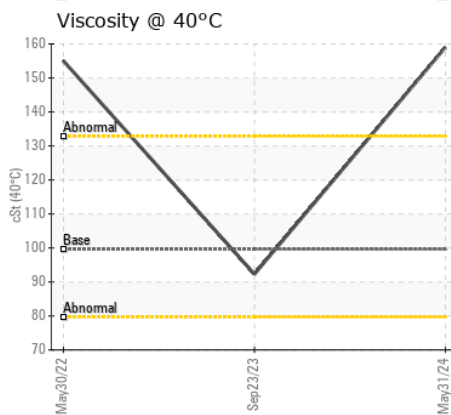
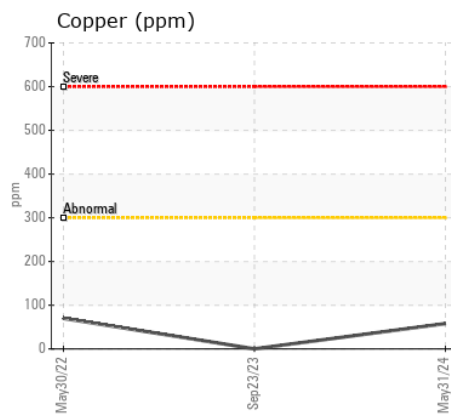
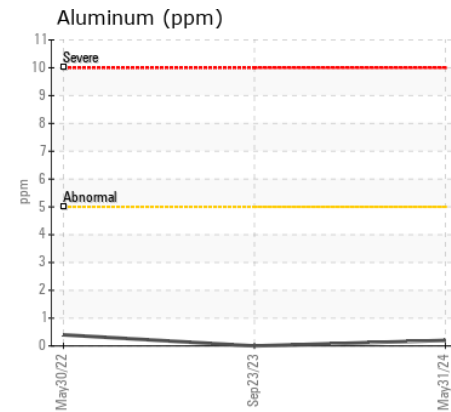
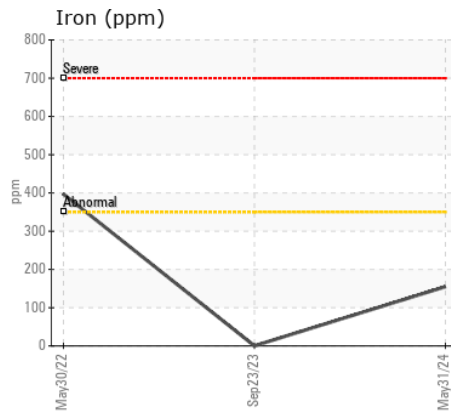
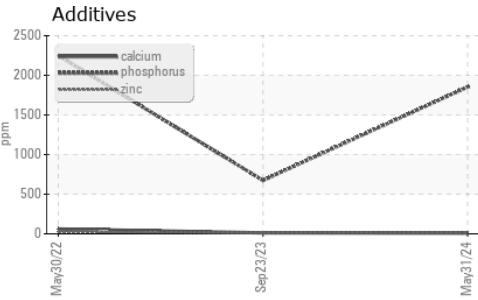
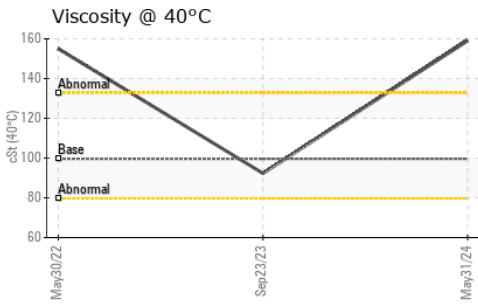
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</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>NEG</b>	NEG	NEG

### FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	4
Boron	ppm	ASTM D5185(m)	328	<b>30</b>	2	25
Barium	ppm	ASTM D5185(m)	1	<b>3</b>	<1	7
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>1</b>	0	3
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	9	<1
Calcium	ppm	ASTM D5185(m)	7	<b>8</b>	12	61
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1853</b>	674	2250
Zinc	ppm	ASTM D5185(m)	3	<b>17</b>	14	24
Sulfur	ppm	ASTM D5185(m)	17909	<b>27658</b>	19589	30628
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>159</b>	92.3	155



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0288361 **Received** : 04 Jun 2024  
**Lab Number** : 02639668 **Tested** : 05 Jun 2024  
**Unique Number** : 5788830 **Diagnosed** : 06 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1

**American Iron and Metal**  
 997 CARPIN BEACH RD  
 SAULT ST MARIE, ON  
 CA P6A 6K4  
 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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F: