



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(360382)**  
Machine Id  
**LIEBHERR LH60C 119564-1528**  
Component  
**Left Final 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>LH0278914</b>	LH0234859	LH0242599
Sample Date		Client Info		<b>18 Jan 2024</b>	23 Jun 2023	28 Oct 2022
Machine Age	hrs	Client Info		<b>4002</b>	2997	1996
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>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>350	<b>210</b>	▲ 550	231
Chromium	ppm	ASTM D5185(m)	>5	<b>2</b>	5	3
Nickel	ppm	ASTM D5185(m)	>5	<b>2</b>	4	2
Titanium	ppm	ASTM D5185(m)		<b>1</b>	6	2
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>31</b>	▲ 94	30
Lead	ppm	ASTM D5185(m)	>10	<b>2</b>	6	2
Copper	ppm	ASTM D5185(m)	>125	<b>16</b>	48	24
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	3	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

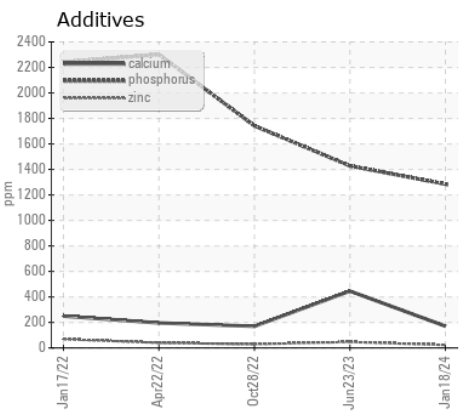
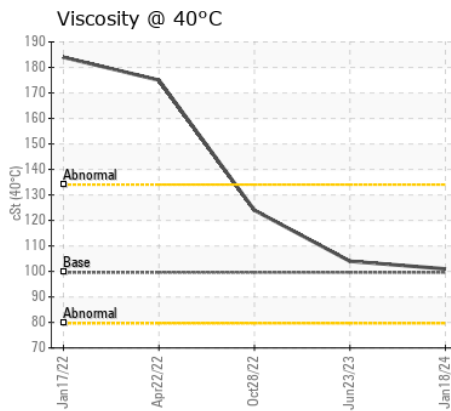
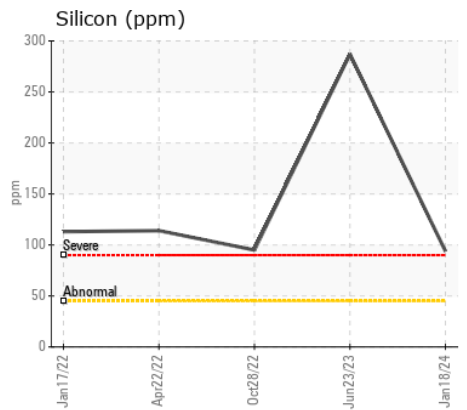
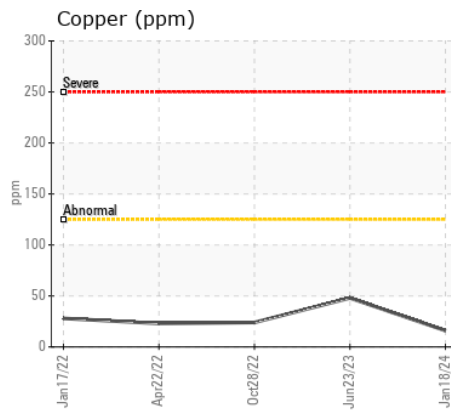
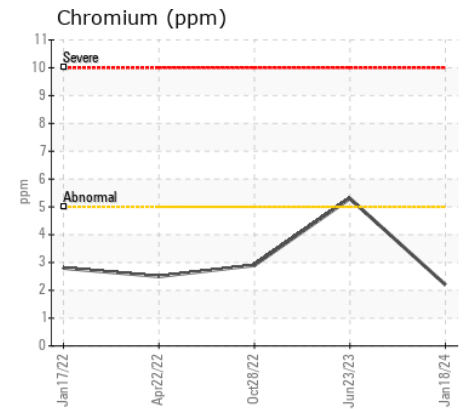
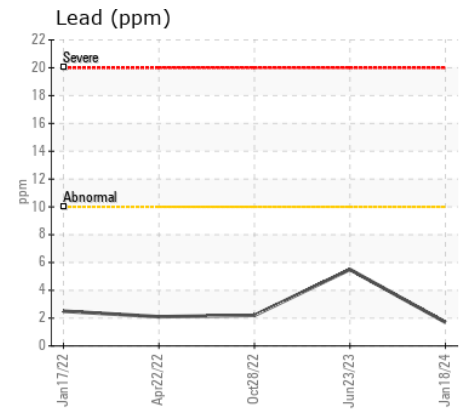
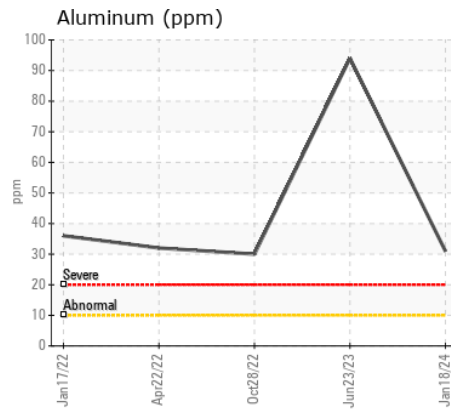
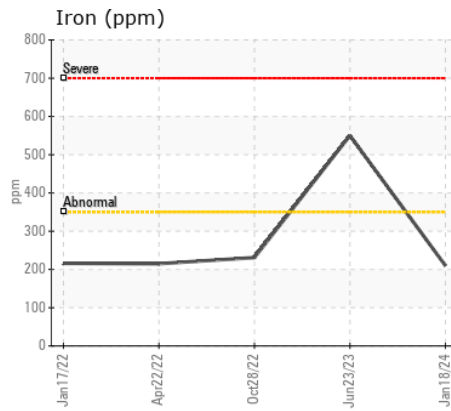
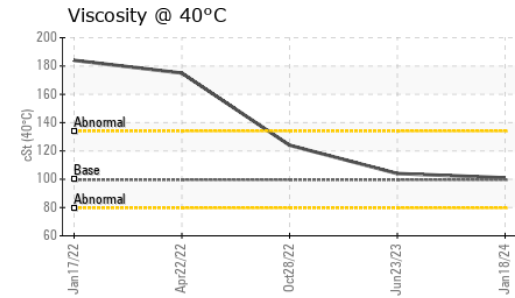
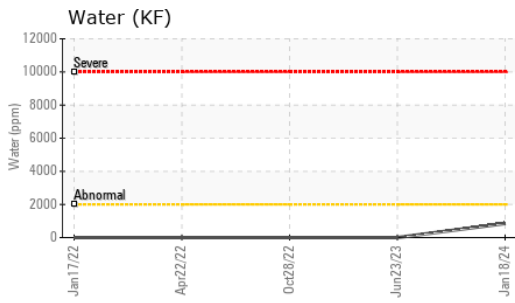
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>45	<b>94</b>	▲ 287	95
Potassium	ppm	ASTM D5185(m)	>20	<b>13</b>	38	12
Water	%	ASTM D6304*	>0.2	<b>0.085</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>852</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>HAZY</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

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

Sodium	ppm	ASTM D5185(m)		<b>5</b>	15	7
Boron	ppm	ASTM D5185(m)	328	<b>277</b>	186	127
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	3	3
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>2</b>	6	3
Magnesium	ppm	ASTM D5185(m)	1	<b>20</b>	54	19
Calcium	ppm	ASTM D5185(m)	7	<b>171</b>	446	170
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1285</b>	1428	1742
Zinc	ppm	ASTM D5185(m)	3	<b>23</b>	47	29
Sulfur	ppm	ASTM D5185(m)	17909	<b>21366</b>	21520	23783
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>101</b>	104	124



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0278914 **Received** : 23 Jan 2024  
**Lab Number** : 02610693 **Diagnosed** : 25 Jan 2024  
**Unique Number** : 5711779 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KF )

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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