



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(366970)**  
Machine Id  
**LIEBHERR L556 066890-1826**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 10W30 (30 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0250653</b>	LH0265574	LH0250647
Sample Date		Client Info		<b>18 Jan 2024</b>	03 Nov 2023	14 Mar 2023
Machine Age	hrs	Client Info		<b>10306</b>	9032	5312
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)	>100	<b>7</b>	15	11
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>3</b>	5	2
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>125	<b>3</b>	6	7
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

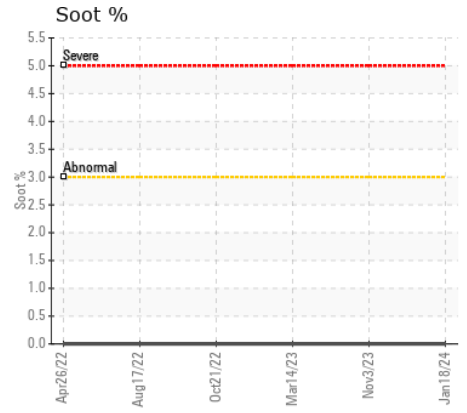
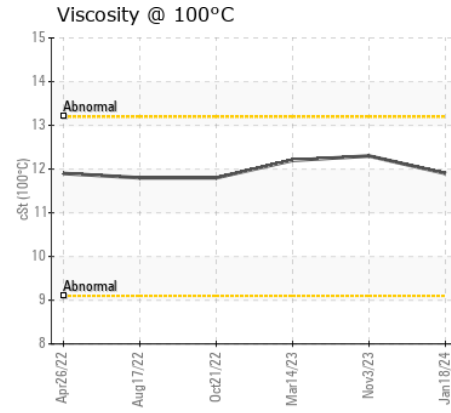
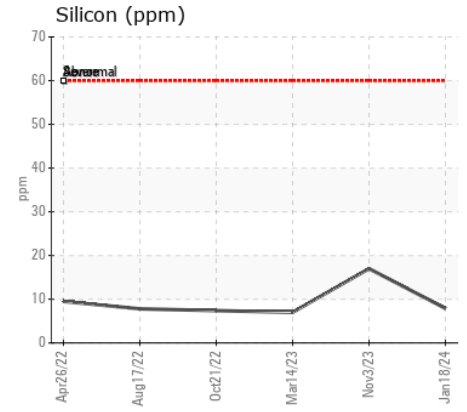
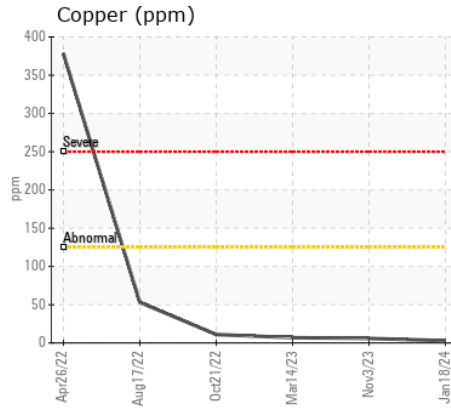
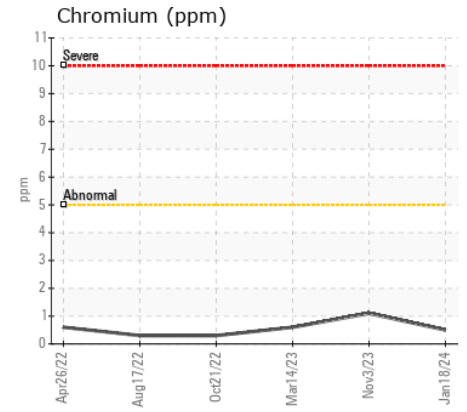
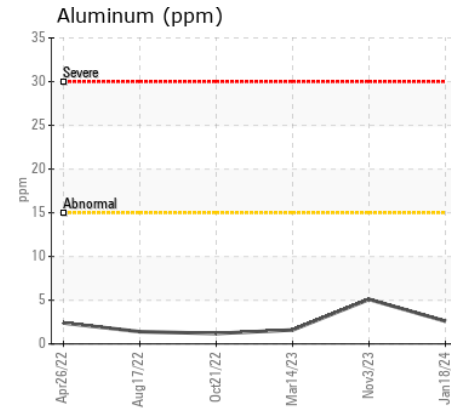
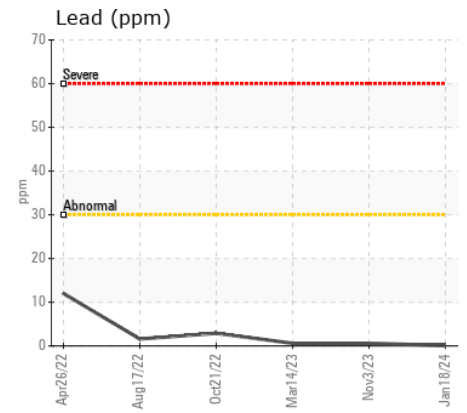
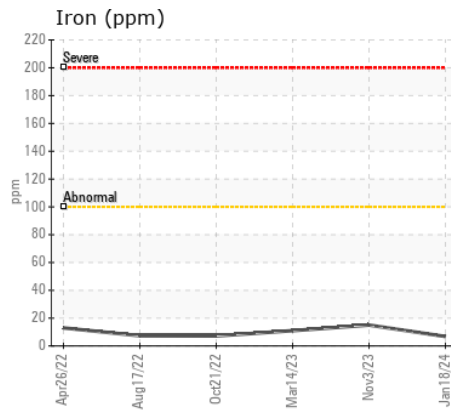
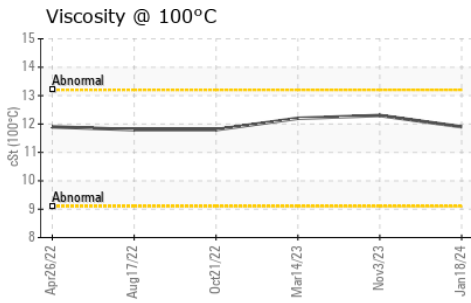
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>8</b>	17	7
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	4	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	1.5	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.4</b>	12.6	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.8</b>	24.6	23.6
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>4</b>	5	5
Boron	ppm	ASTM D5185(m)		<b>26</b>	18	19
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>57</b>	58	61
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>1103</b>	1100	1102
Calcium	ppm	ASTM D5185(m)		<b>830</b>	852	929
Phosphorus	ppm	ASTM D5185(m)		<b>1026</b>	1008	1108
Zinc	ppm	ASTM D5185(m)		<b>1197</b>	1209	1230
Sulfur	ppm	ASTM D5185(m)		<b>2855</b>	2498	2671
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.0</b>	▲ 27.5	24.8
Visc @ 100°C	cSt	ASTM D7279(m)		<b>11.9</b>	12.3	12.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0250653  
**Lab Number** : 02619186  
**Unique Number** : 5736296  
**Test Package** : MOB 1  
**Received** : 01 Mar 2024  
**Tested** : 01 Mar 2024  
**Diagnosed** : 01 Mar 2024 - Kevin Marson

**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.

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F: