



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(362878)**  
Machine Id  
**LIEBHERR LH80M 135287-1218**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON UHP E6 10W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0286522</b>	LH0284940	LH0277420
Sample Date		Client Info		<b>04 Mar 2024</b>	08 Feb 2024	23 Oct 2023
Machine Age	hrs	Client Info		<b>10640</b>	10128	8967
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	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>4</b>	5	6
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>1</b>	2	4
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>125	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

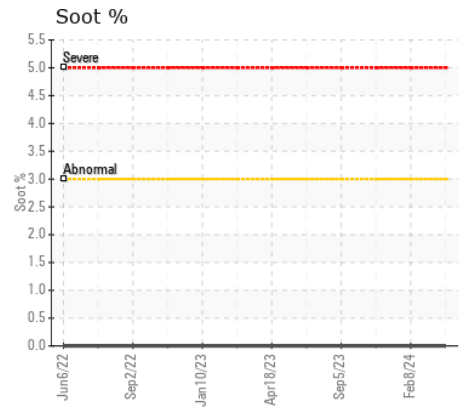
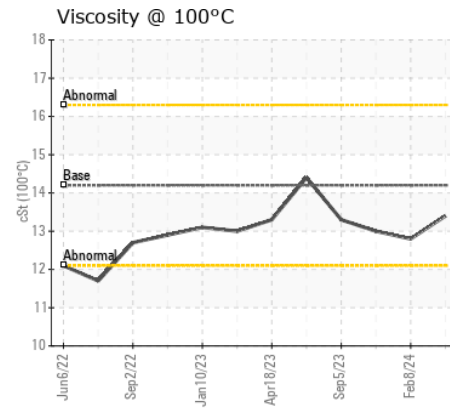
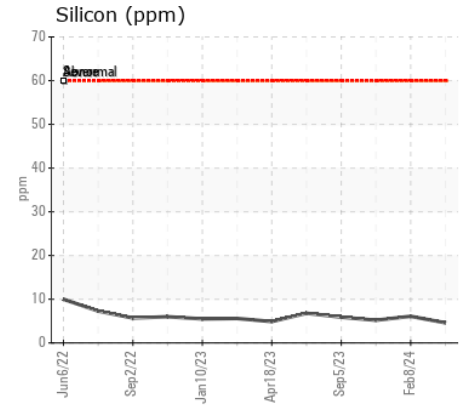
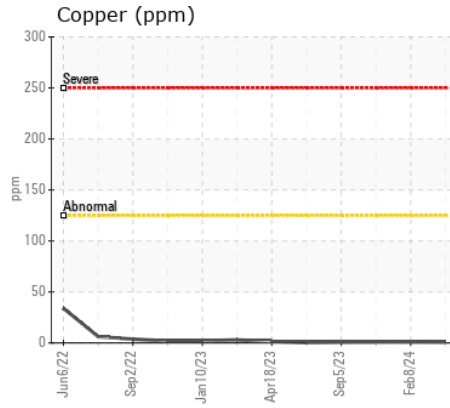
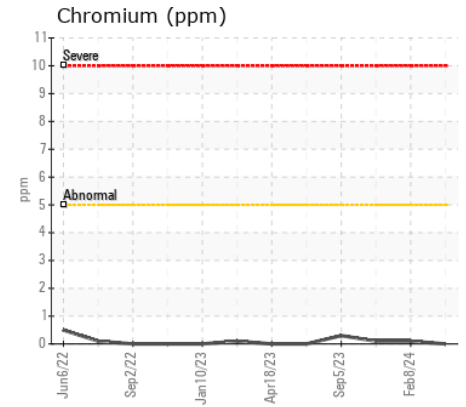
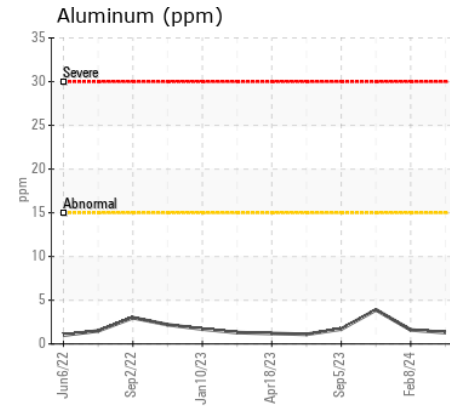
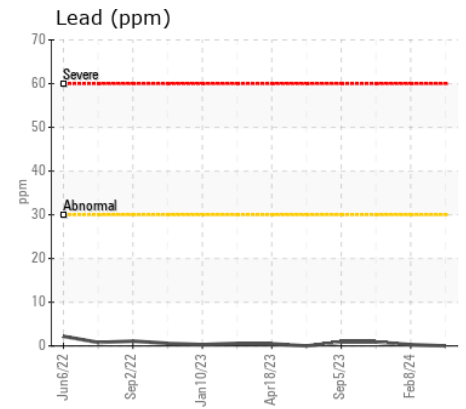
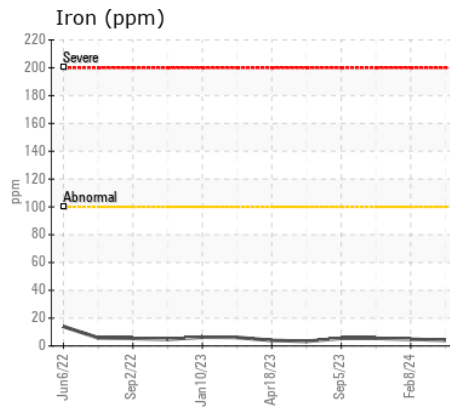
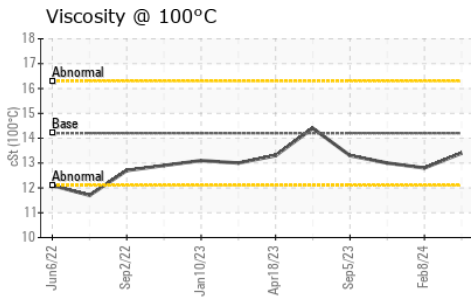
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>5</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	9
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<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>8.9</b>	10.1	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.1</b>	19.4	19.7
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>1</b>	1	2
Boron	ppm	ASTM D5185(m)	0	<b>10</b>	2	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>55</b>	58	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	80	<b>948</b>	985	1023
Calcium	ppm	ASTM D5185(m)	2400	<b>1116</b>	1131	1156
Phosphorus	ppm	ASTM D5185(m)	750	<b>988</b>	1019	1044
Zinc	ppm	ASTM D5185(m)	840	<b>1167</b>	1232	1270
Sulfur	ppm	ASTM D5185(m)	2130	<b>2756</b>	2791	2639
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.3</b>	18.6	18.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.2	<b>13.4</b>	12.8	13.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0286522  
**Lab Number** : 02619848  
**Unique Number** : 5736958  
**Test Package** : MOB 1  
**Received** : 05 Mar 2024  
**Tested** : 05 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Wes Davis

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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