



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L550 038130**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 10W40 (40 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0286971</b>	LH0202905	LH0239577
Sample Date		Client Info		<b>02 Apr 2024</b>	18 May 2023	15 Aug 2022
Machine Age	hrs	Client Info		<b>10460</b>	9860	9173
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>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>15</b>	13	7
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>3</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>9</b>	7	5
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185(m)	>125	<b>4</b>	4	3
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

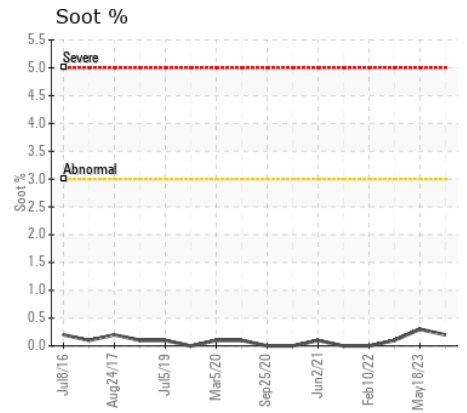
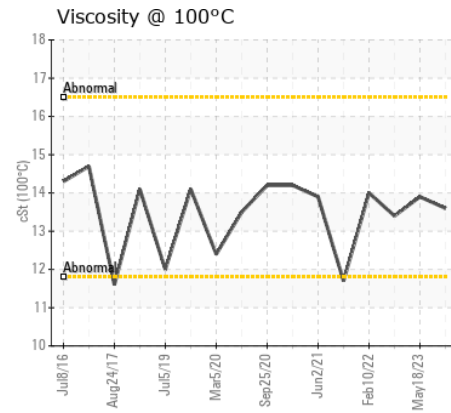
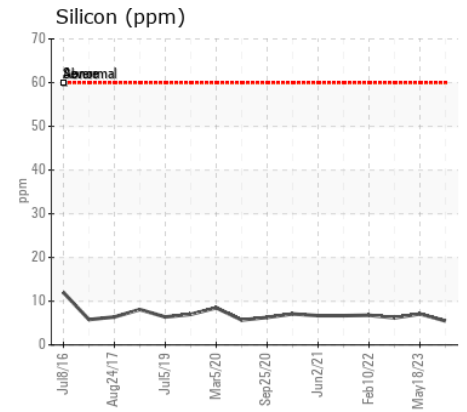
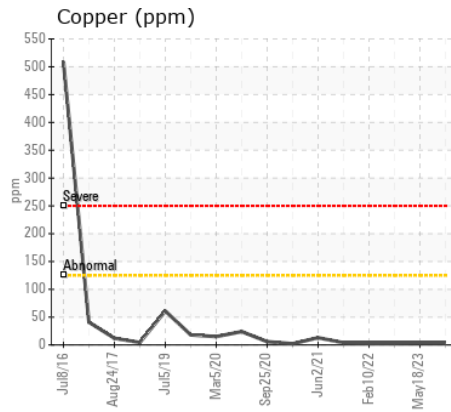
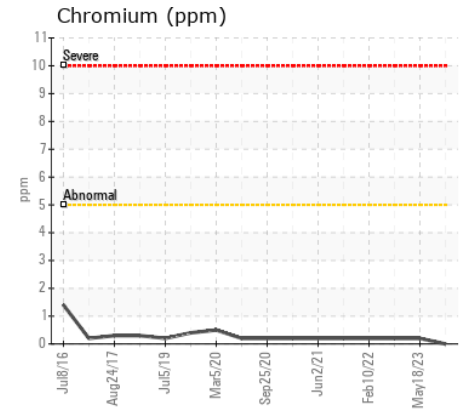
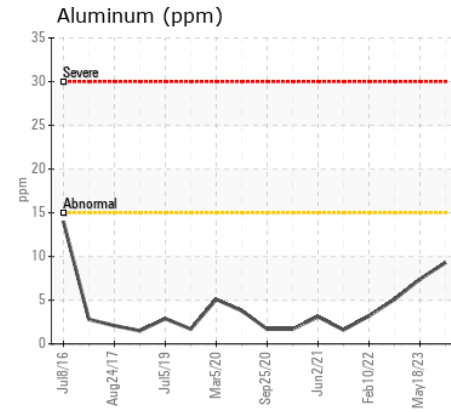
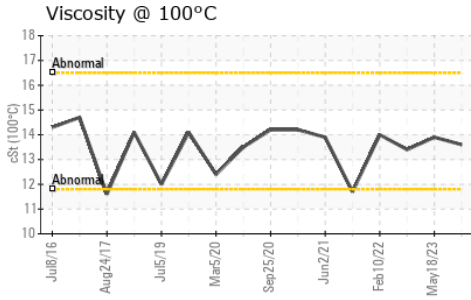
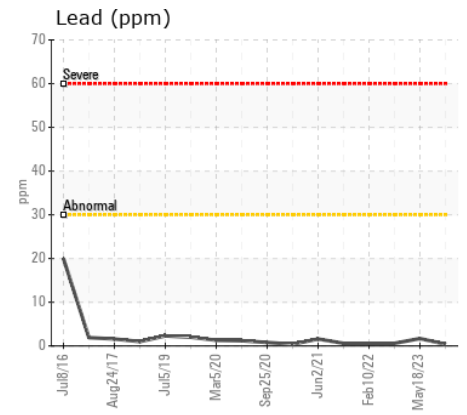
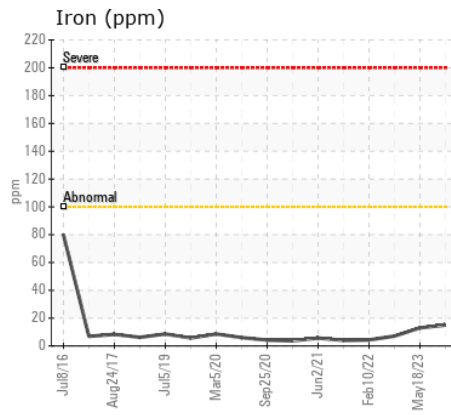
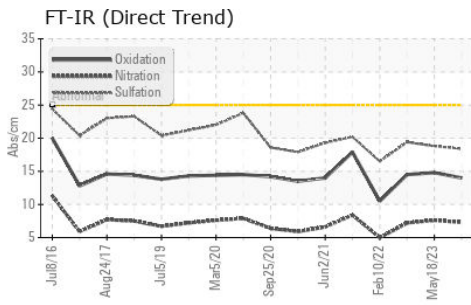
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>6</b>	7	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
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>0.2</b>	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.3</b>	7.6	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.4</b>	18.8	19.4
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)	>20	<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)		<b>6</b>	1	4
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>56</b>	60	59
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>918</b>	973	985
Calcium	ppm	ASTM D5185(m)		<b>1205</b>	1146	1097
Phosphorus	ppm	ASTM D5185(m)		<b>1012</b>	1111	1027
Zinc	ppm	ASTM D5185(m)		<b>1208</b>	1230	1232
Sulfur	ppm	ASTM D5185(m)		<b>2641</b>	2725	2702
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.0</b>	14.8	14.5
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.6</b>	13.9	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0286971  
**Lab Number** : 02627608  
**Unique Number** : 5760740  
**Test Package** : MOB 1  
**Received** : 09 Apr 2024  
**Tested** : 09 Apr 2024  
**Diagnosed** : 09 Apr 2024 - Wes Davis

**D & G LANDSCAPING**  
 1341 COKER  
 GREELY, ON  
 CA K4P 1A1  
 Contact: Maintenance

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: