



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(363880)**

Machine Id  
**LIEBHERR L550 064917-1756**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON UHP 5W30 (26 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH0279049	LH
Sample Date		Client Info		<b>08 Apr 2024</b>	22 Jan 2024	13 Nov 2023
Machine Age	hrs	Client Info		<b>6412</b>	5982	5500
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)	>100	<b>3</b>	3	4
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	1
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	1
Copper	ppm	ASTM D5185(m)	>125	<b>2</b>	2	4
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

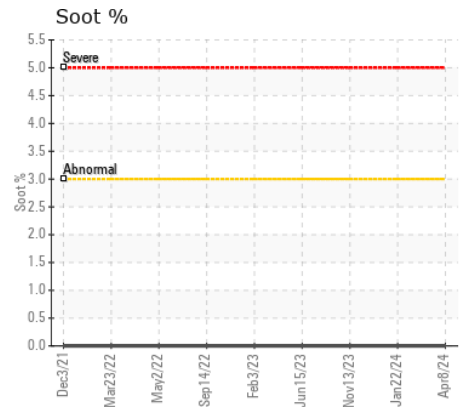
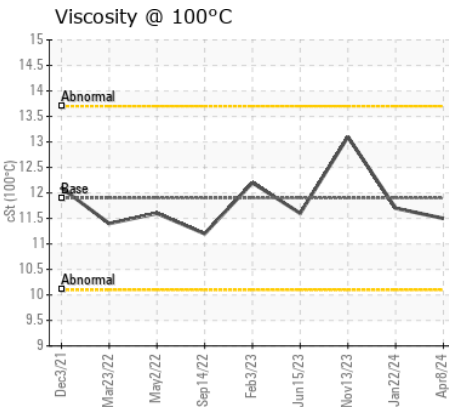
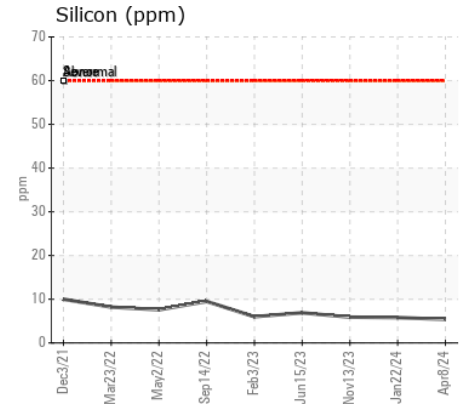
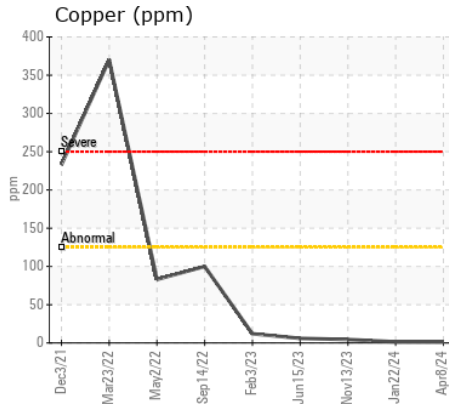
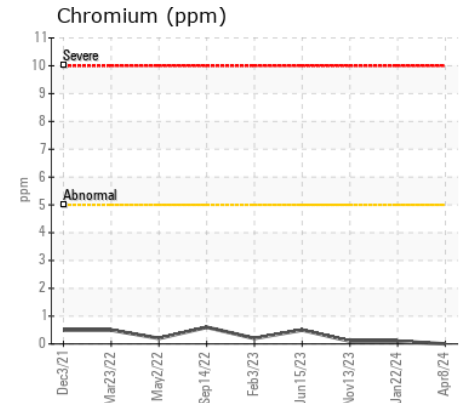
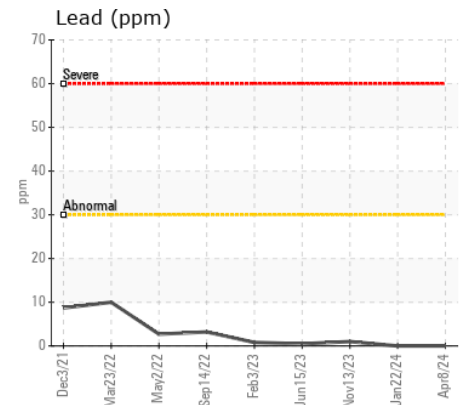
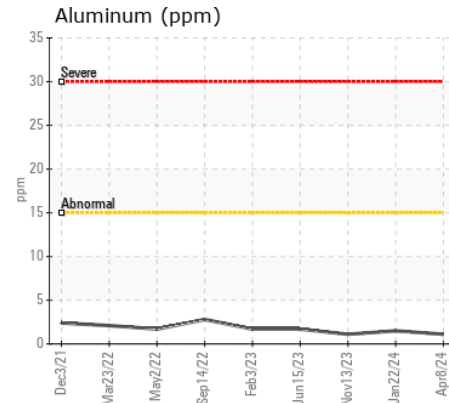
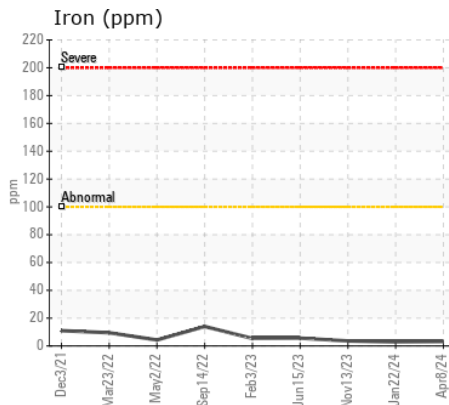
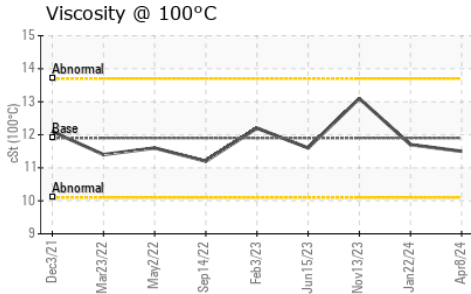
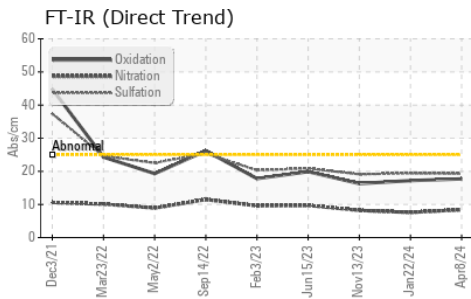
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>5</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	4	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</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.4</b>	7.6	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.3</b>	19.4	19.1
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>	3	2
Boron	ppm	ASTM D5185(m)	0	<b>35</b>	40	10
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	64	<b>55</b>	55	55
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1160	<b>1073</b>	1046	905
Calcium	ppm	ASTM D5185(m)	820	<b>802</b>	826	1105
Phosphorus	ppm	ASTM D5185(m)	1160	<b>965</b>	996	1002
Zinc	ppm	ASTM D5185(m)	1260	<b>1152</b>	1151	1212
Sulfur	ppm	ASTM D5185(m)	3000	<b>2644</b>	2893	2591
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.7</b>	17.2	16.3
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	<b>11.5</b>	11.7	13.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH  
**Lab Number** : 02630509  
**Unique Number** : 5763641  
**Test Package** : MOB 1  
**Received** : 22 Apr 2024  
**Tested** : 22 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Kevin Marson

**ARMAND DUHAMEL et FILS INC.**  
 778 RUE DE L'ÉGLISE  
 ST-IGNACE-STANDBRIDGE, QC  
 CA J0J 1Y0  
 Contact:

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: