



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L556 069061-1826**

Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL 10W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0257308</b>	LH0257330	LH0257283
Sample Date		Client Info		<b>04 Apr 2024</b>	25 Jan 2024	24 May 2023
Machine Age	hrs	Client Info		<b>4986</b>	4000	450
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>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>3</b>	3	10
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>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	11
Copper	ppm	ASTM D5185(m)	>125	<b>&lt;1</b>	1	▲ 406
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

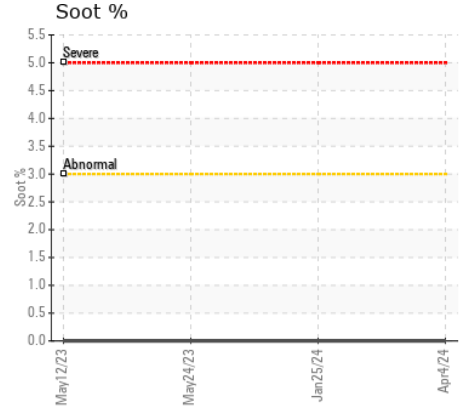
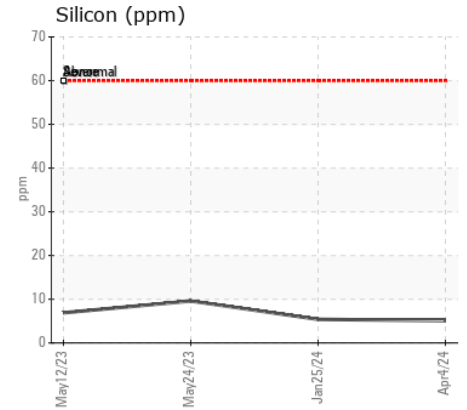
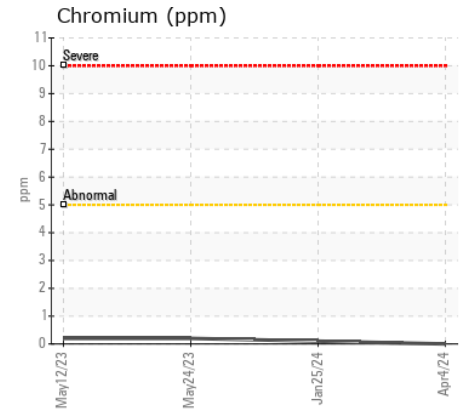
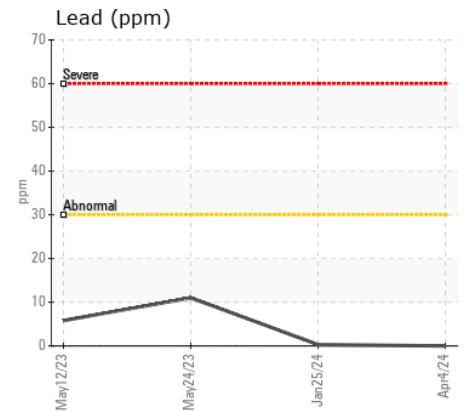
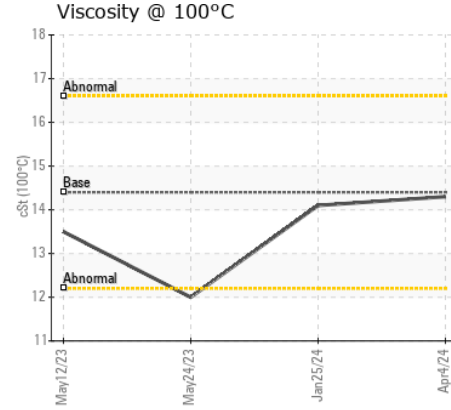
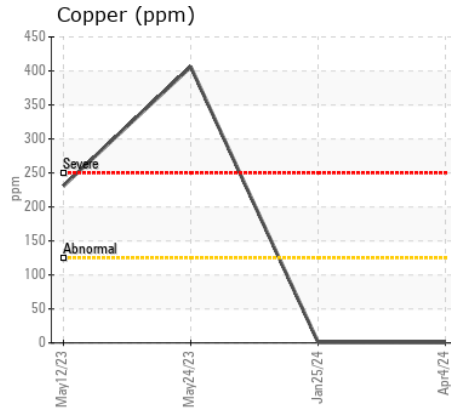
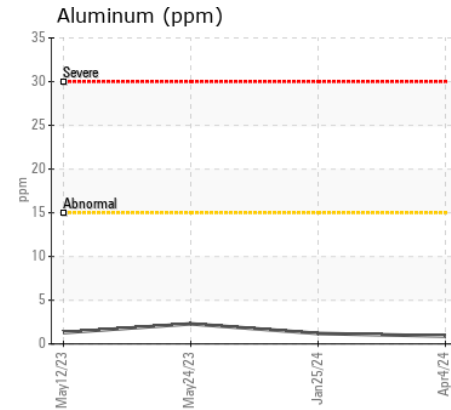
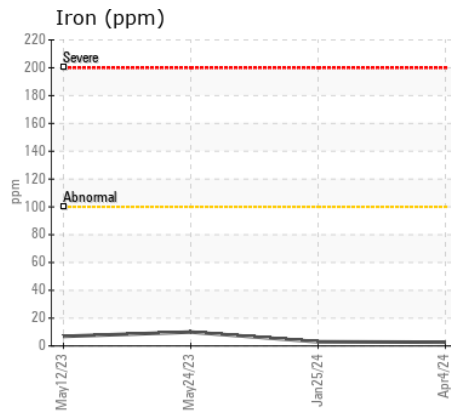
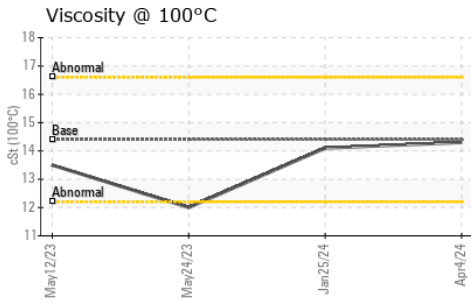
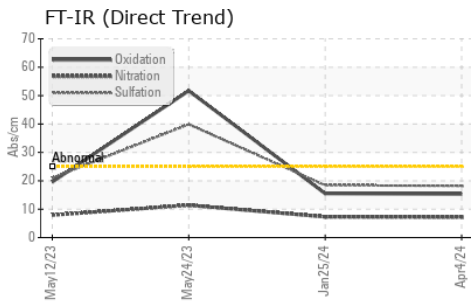
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>5</b>	5	10
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.8
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>7.2</b>	7.3	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.2</b>	18.4	39.9
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>&lt;1</b>	<1	2
Boron	ppm	ASTM D5185(m)	250	<b>1</b>	1	101
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	31
Molybdenum	ppm	ASTM D5185(m)	100	<b>59</b>	57	45
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	1
Magnesium	ppm	ASTM D5185(m)	450	<b>980</b>	950	917
Calcium	ppm	ASTM D5185(m)	3000	<b>1058</b>	1057	1459
Phosphorus	ppm	ASTM D5185(m)	1150	<b>999</b>	994	779
Zinc	ppm	ASTM D5185(m)	1350	<b>1187</b>	1177	843
Sulfur	ppm	ASTM D5185(m)	4250	<b>2543</b>	2725	1855
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.3</b>	15.5	51.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.3</b>	14.1	12.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0257308  
**Lab Number** : 02628724  
**Unique Number** : 5761856  
**Test Package** : MOBCE

**PRODUITS FORESTIERS D.G. LTEE**  
 313 RANG ST-JOSEPH  
 STE-AURELIE, QC  
 CA G0M 1M0  
 Contact: Roger .

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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