



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH50M 155396-1216**  
Component  
**Diesel Engine**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0283379</b>	---	---
Sample Date		Client Info		<b>16 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>500</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>9</b>	---	---
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>15	<b>3</b>	---	---
Lead	ppm	ASTM D5185(m)	>30	<b>6</b>	---	---
Copper	ppm	ASTM D5185(m)	>125	<b>144</b>	---	---
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

### CONTAMINATION

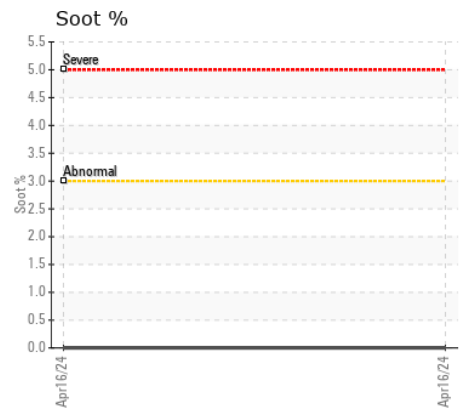
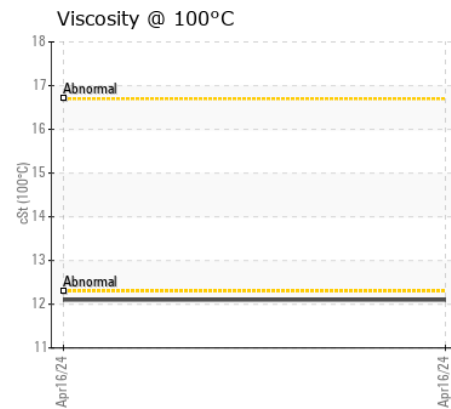
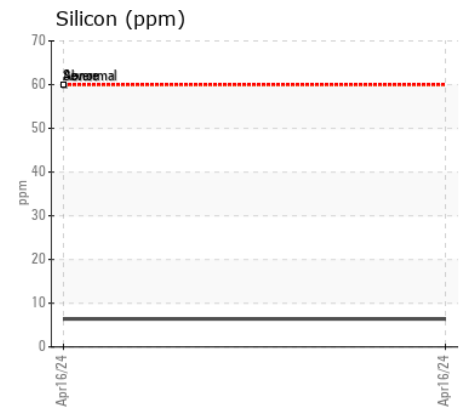
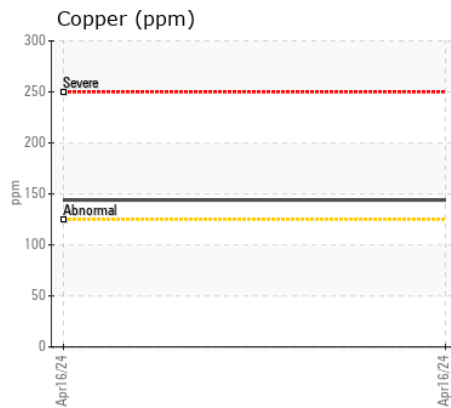
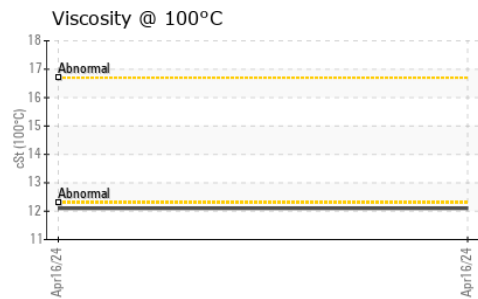
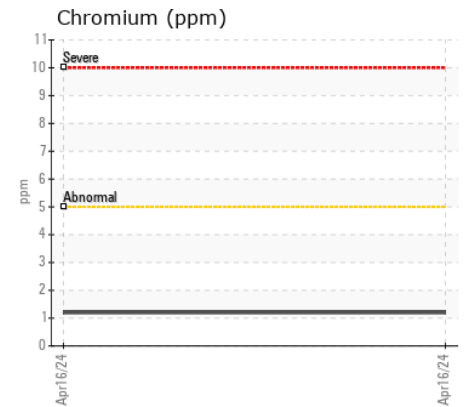
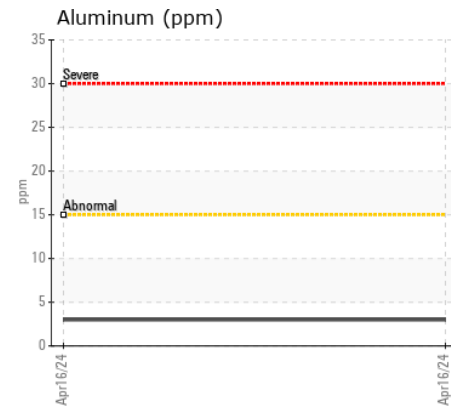
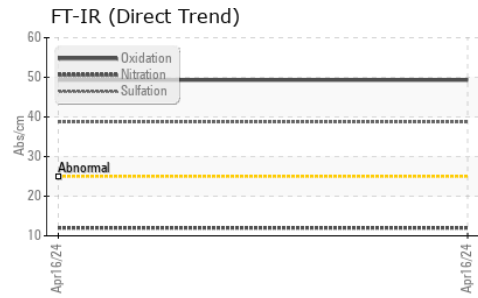
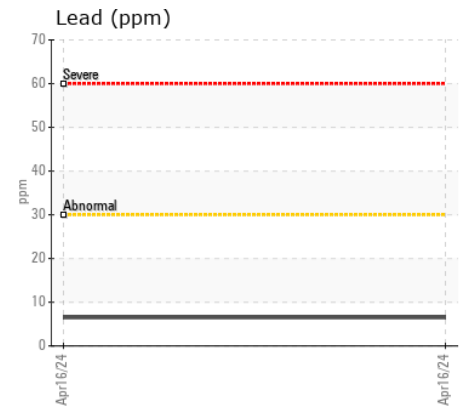
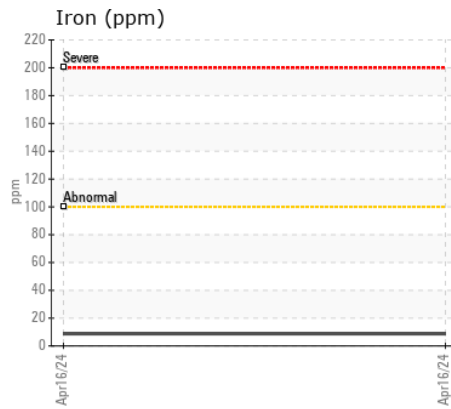
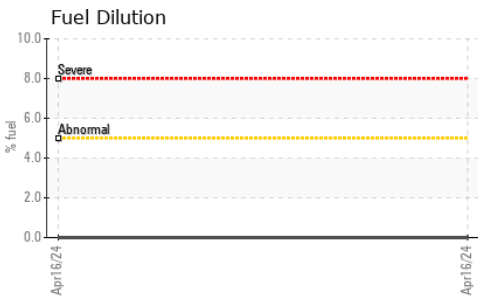
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>6</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Fuel	%	ASTM D7593*	>5	<b>0.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.0</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>38.7</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>91</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>36</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>47</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>914</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1273</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>699</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>835</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2094</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>49.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>12.1</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0283379 **Received** : 04 Jun 2024  
**Lab Number** : 02639563 **Tested** : 06 Jun 2024  
**Unique Number** : 5788725 **Diagnosed** : 06 Jun 2024 - Kevin Marson  
**Test Package** : MOBCE ( Additional Tests: FuelDilution, PercentFuel, Visual )

**J.M. BASTILLE ACIER INC**  
 396 RUE TEMISCOUATA,, CP 744  
 RIVIERE DU LOUP, QC  
 CA G5R 3Z3  
 Contact: MANAGER SERVICE

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: