



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH30M 153712-1253**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON UHP 5W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH	---
Sample Date		Client Info		<b>30 Apr 2024</b>	14 Dec 2023	---
Machine Age	hrs	Client Info		<b>1001</b>	500	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>66	<b>5</b>	8	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>8	<b>1</b>	2	---
Lead	ppm	ASTM D5185(m)	>10	<b>6</b>	10	---
Copper	ppm	ASTM D5185(m)	>74	<b>276</b>	282	---
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

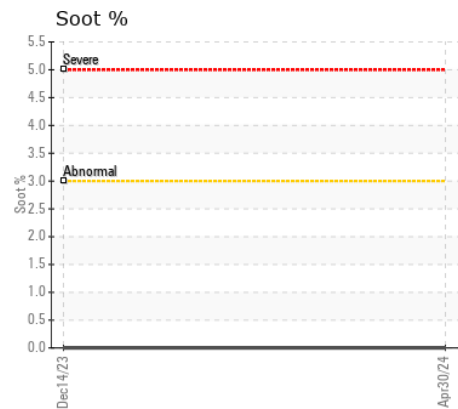
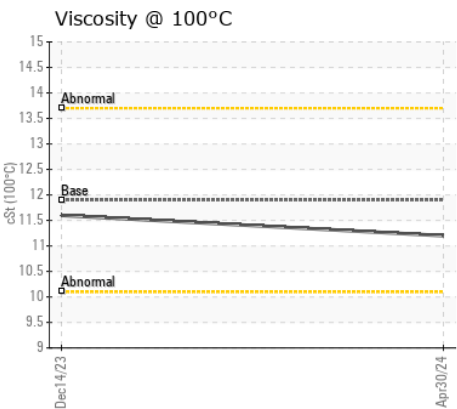
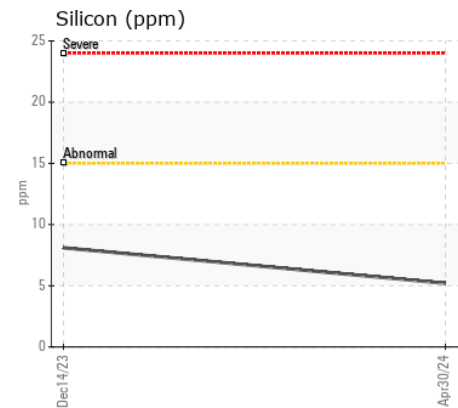
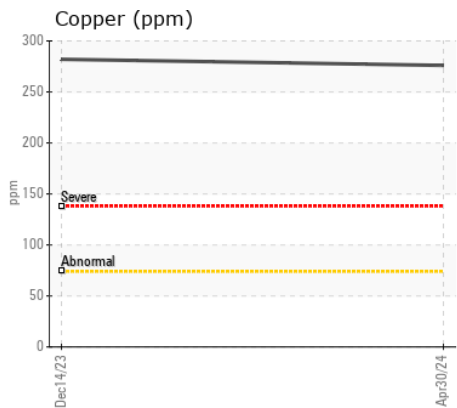
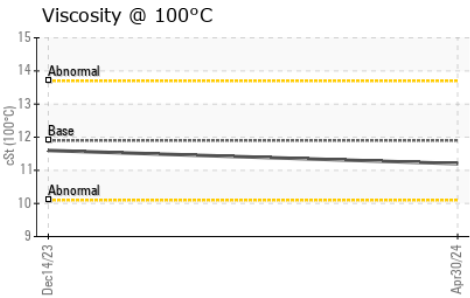
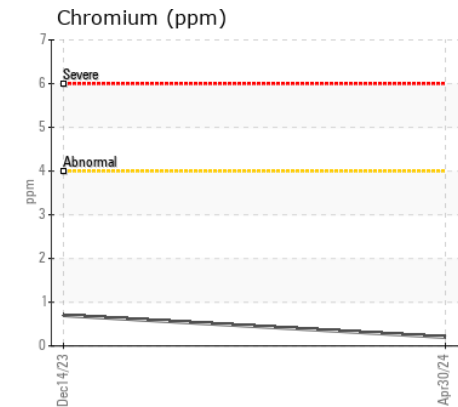
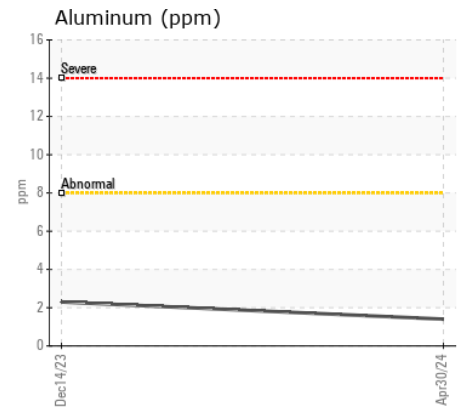
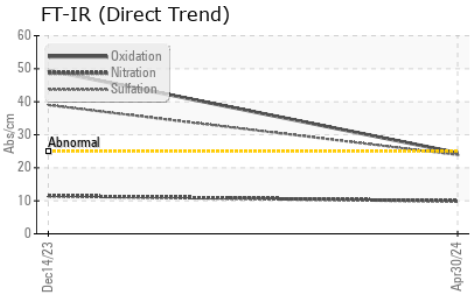
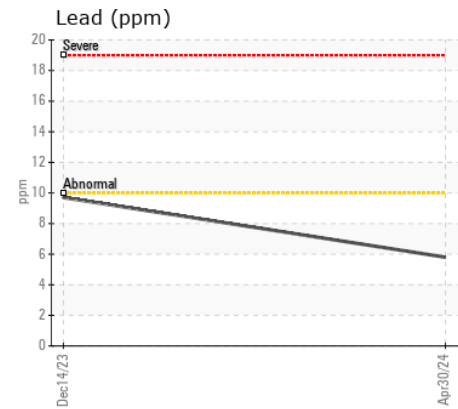
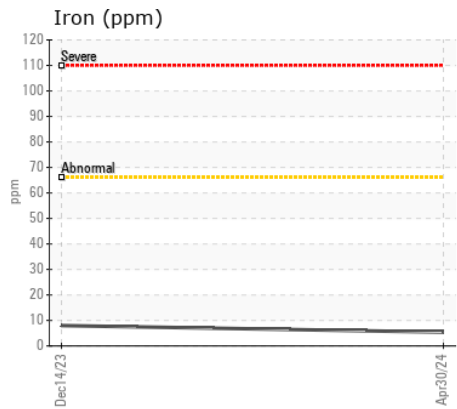
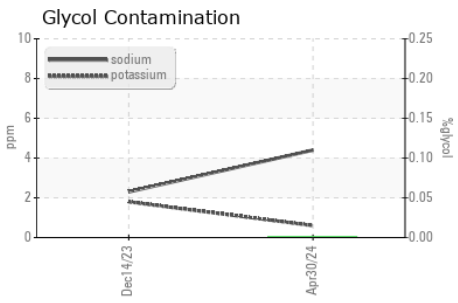
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>5</b>	8	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	11.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.9</b>	39.0	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	2	---
Boron	ppm	ASTM D5185(m)	0	<b>38</b>	105	---
Barium	ppm	ASTM D5185(m)	0	<b>4</b>	31	---
Molybdenum	ppm	ASTM D5185(m)	64	<b>62</b>	45	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1160	<b>1132</b>	880	---
Calcium	ppm	ASTM D5185(m)	820	<b>941</b>	1435	---
Phosphorus	ppm	ASTM D5185(m)	1160	<b>988</b>	757	---
Zinc	ppm	ASTM D5185(m)	1260	<b>1210</b>	894	---
Sulfur	ppm	ASTM D5185(m)	3000	<b>2513</b>	1986	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>24.5</b>	49.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.9	<b>11.2</b>	11.6	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH **Received** : 03 May 2024  
**Lab Number** : 02633038 **Tested** : 03 May 2024  
**Unique Number** : 5774191 **Diagnosed** : 03 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )

**Innovation Industrielle Boivin Inc.**  
 2205 de la Fonderie  
 Chicoutimi, QC  
 CA G7H 8B9  
 Contact: Service Manager

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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