



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**28550**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0289849</b>	LH0227195	---
Sample Date		Client Info		<b>10 May 2024</b>	04 Apr 2022	---
Machine Age	hrs	Client Info		<b>8963</b>	8200	---
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>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

Les taux d'usure de tous les composants sont normaux.

Iron	ppm	ASTM D5185(m)	>100	<b>29</b>	14	---
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>30	<b>5</b>	14	---
Copper	ppm	ASTM D5185(m)	>125	<b>119</b>	413	---
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

### CONTAMINATION

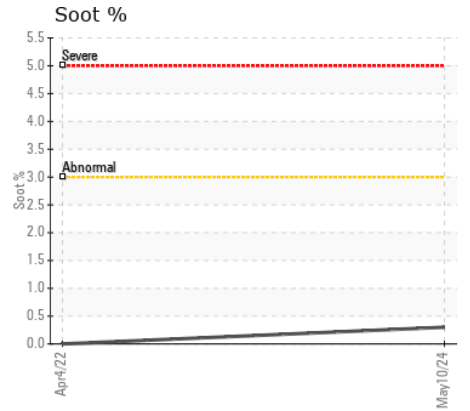
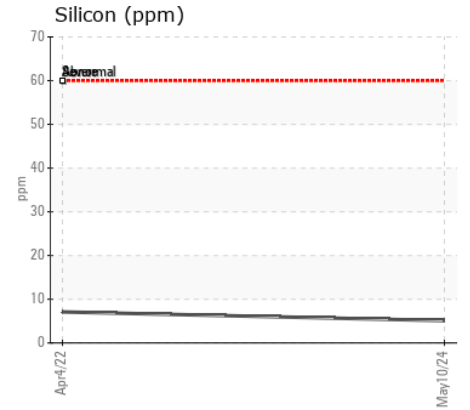
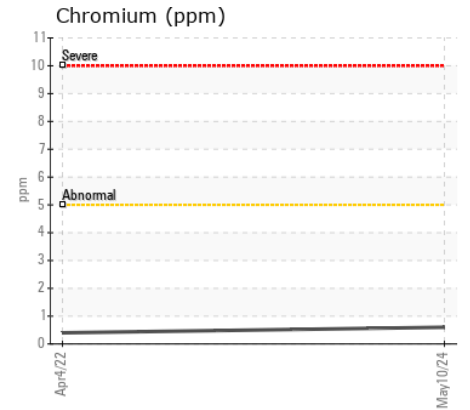
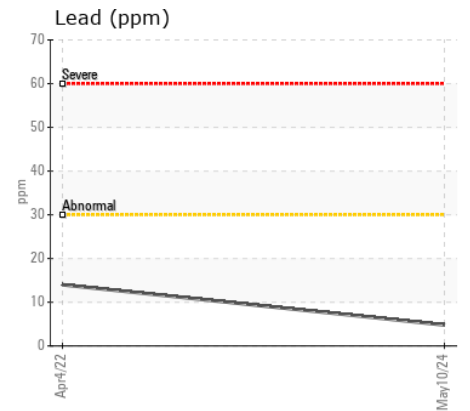
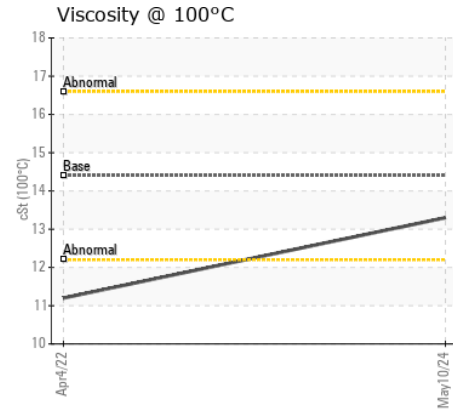
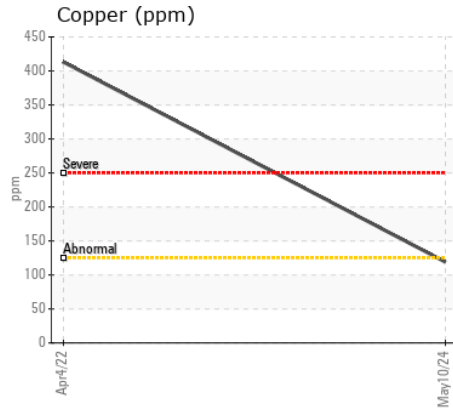
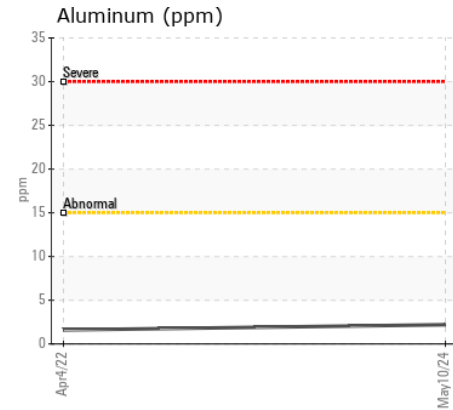
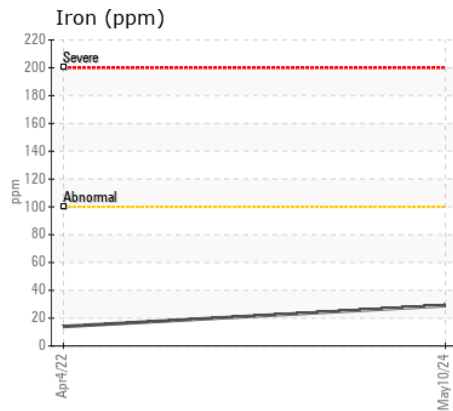
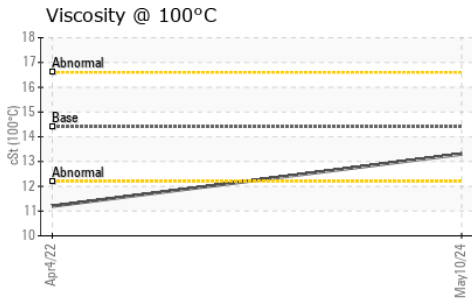
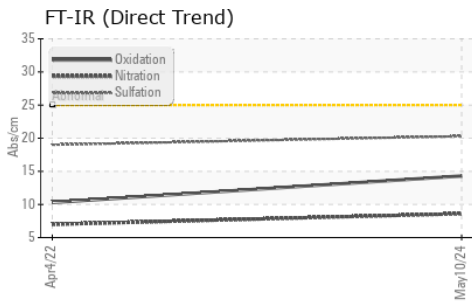
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>60	<b>5</b>	7	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.9	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	0.0	---
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.6</b>	7.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	19.0	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)	>158	<b>1</b>	2	---
Boron	ppm	ASTM D5185(m)	250	<b>18</b>	2	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>33</b>	9	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	450	<b>518</b>	141	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1661</b>	2158	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1023</b>	972	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1194</b>	1079	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2854</b>	3117	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.3</b>	10.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.3</b>	▲ 11.2	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0289849 **Received** : 13 May 2024  
**Lab Number** : 02634884 **Tested** : 13 May 2024  
**Unique Number** : 5776037 **Diagnosed** : 13 May 2024 - Wes Davis  
**Test Package** : MOB 1

**American Iron and Metal**  
 200 rue Nadon  
 Amos, QC  
 CA J9T 3A1  
 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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F: