



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**062579-1007**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

Aucune mesure corrective n'est recommandée pour l'instant.  
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>LH</b>	LH0105754	LH0100606
Sample Date		Client Info		<b>09 Feb 2024</b>	07 Sep 2016	01 Jun 2016
Machine Age	hrs	Client Info		<b>0</b>	8570	8072
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>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

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

Iron	ppm	ASTM D5185(m)	>66	<b>5</b>	22	29
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>8	<b>2</b>	6	7
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	2	4
Copper	ppm	ASTM D5185(m)	>74	<b>&lt;1</b>	3	4
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

### CONTAMINATION

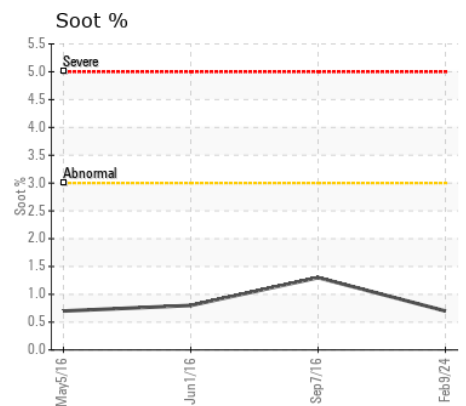
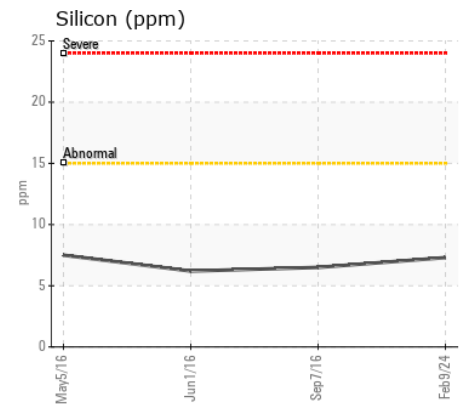
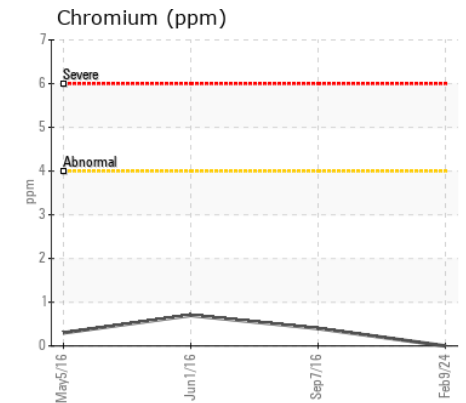
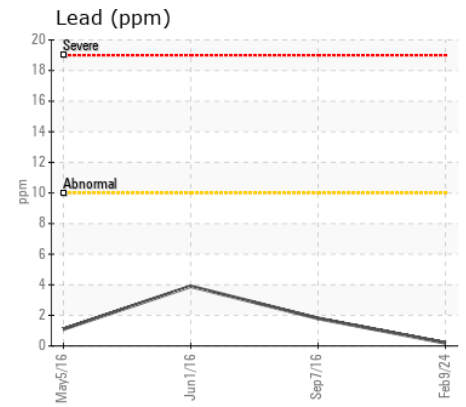
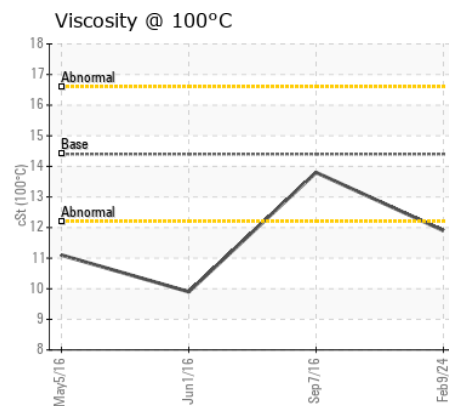
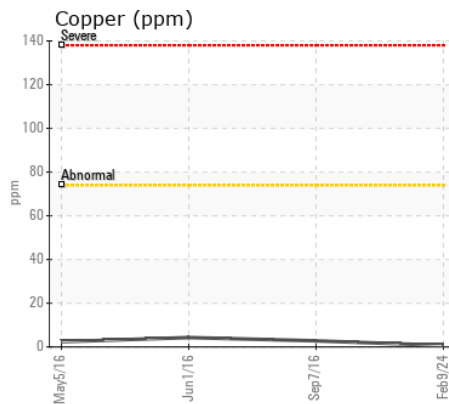
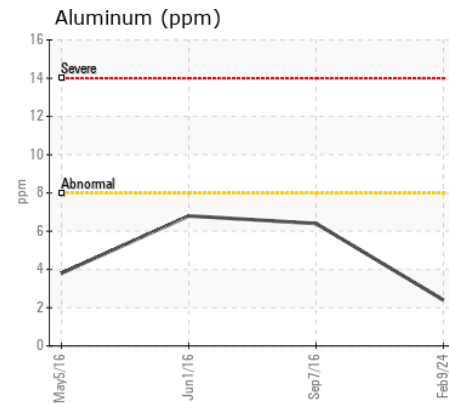
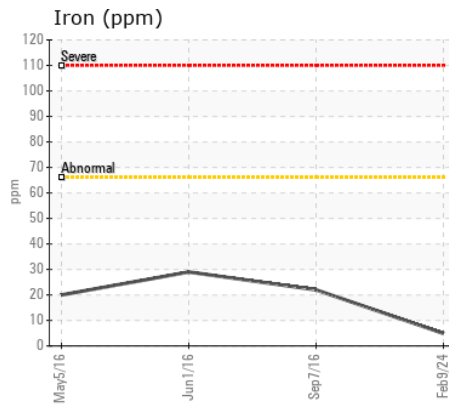
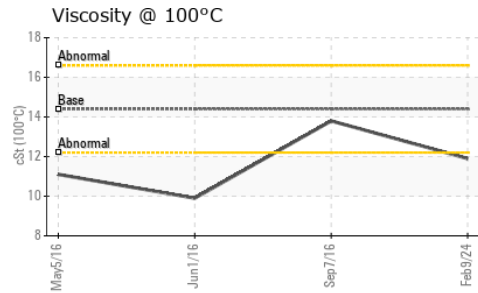
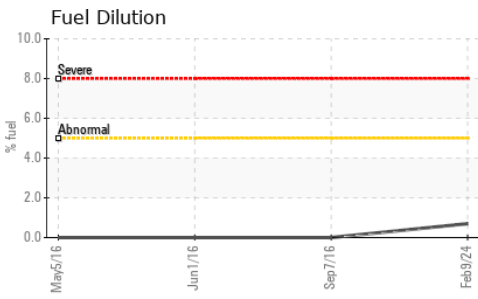
La teneur en carburant est négligeable. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>15	<b>7</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Fuel	%	ASTM D7593*	>5	<b>0.7</b>	<1.0	0.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.7</b>	1.3	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.7</b>	9.1	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>30.3</b>	23.5	23.6
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>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	<b>&lt;1</b>	4	4
Boron	ppm	ASTM D5185(m)	250	<b>53</b>	<1	1
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>6</b>	35	33
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>49</b>	733	700
Calcium	ppm	ASTM D5185(m)	3000	<b>2181</b>	1378	1147
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1049</b>	990	959
Zinc	ppm	ASTM D5185(m)	1350	<b>1184</b>	1246	1217
Sulfur	ppm	ASTM D5185(m)	4250	<b>3464</b>	2656	2689
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>33.1</b>	13.5	14.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>11.9</b>	13.8	▲ 9.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH **Received** : 26 Feb 2024  
**Lab Number** : 02617979 **Tested** : 27 Feb 2024  
**Unique Number** : 5735089 **Diagnosed** : 27 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, Visual )

**American Iron and Metal**  
 251 CHEMIN DES ILES  
 LEVIS, QC  
 CA G6V 1M5  
 Contact: Bobby Rochette

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: