



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**LIEBHERR LH30M 114790-1253**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 10W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0288041</b>	LH0280955	LH0242113
Sample Date		Client Info		<b>12 Apr 2024</b>	19 Jan 2024	10 Oct 2023
Machine Age	hrs	Client Info		<b>9051</b>	8550	7937
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>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>66	<b>3</b>	4	5
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	2
Copper	ppm	ASTM D5185(m)	>74	<b>&lt;1</b>	2	6
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

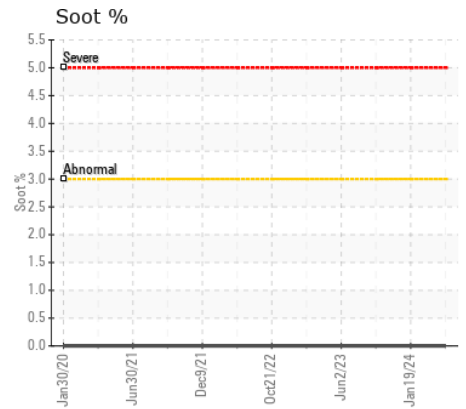
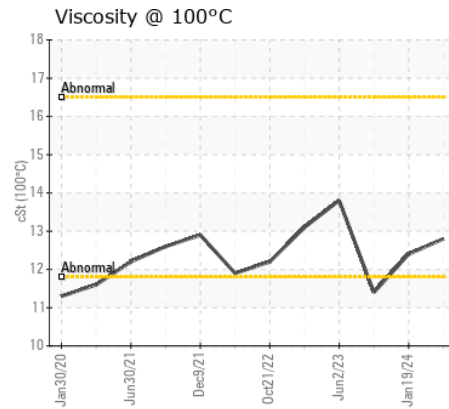
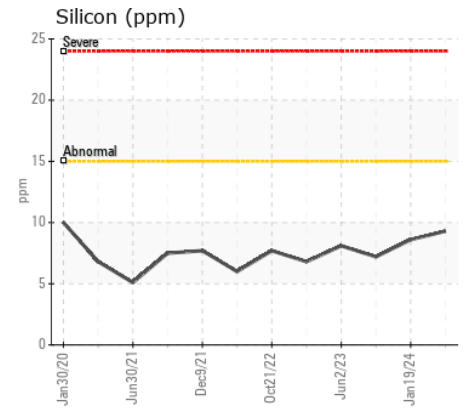
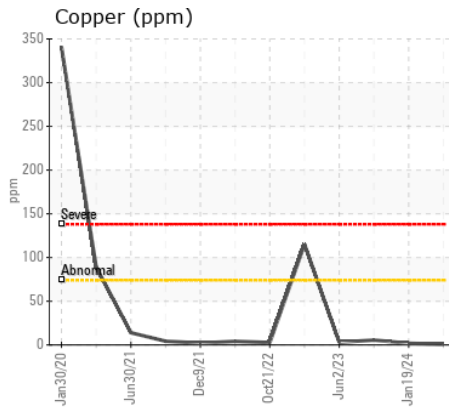
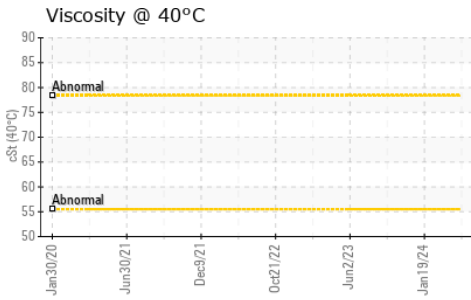
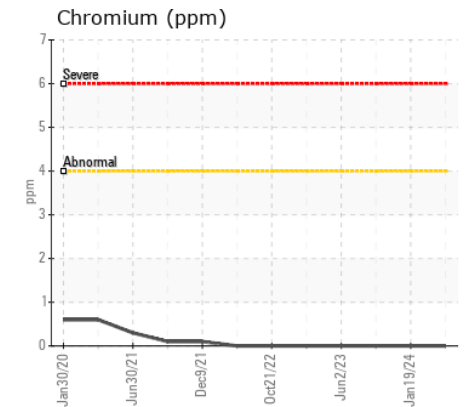
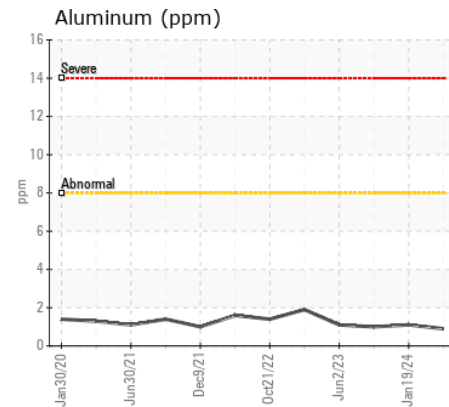
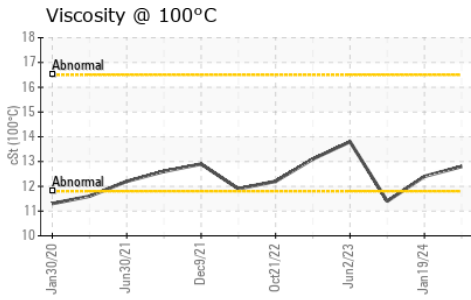
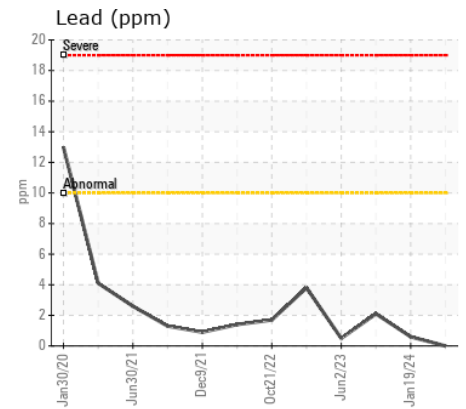
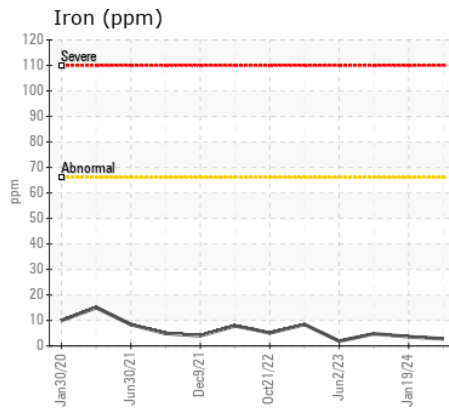
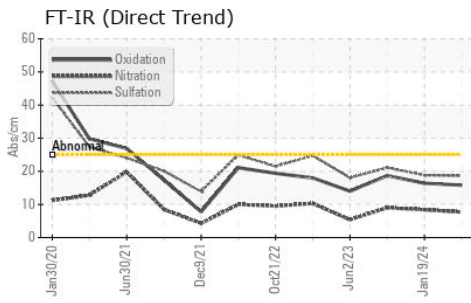
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>9</b>	9	7
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	17
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	▲ 3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.7</b>	8.4	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.6</b>	18.8	21.1
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)	>20	<b>1</b>	1	2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	6
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>57</b>	58	60
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>974</b>	954	908
Calcium	ppm	ASTM D5185(m)		<b>1059</b>	1086	1141
Phosphorus	ppm	ASTM D5185(m)		<b>1000</b>	1011	920
Zinc	ppm	ASTM D5185(m)		<b>1191</b>	1176	1151
Sulfur	ppm	ASTM D5185(m)		<b>2576</b>	2758	2474
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.8</b>	16.4	18.7
Visc @ 40°C	cSt	ASTM D7279(m)		<b>84.7</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>12.8</b>	12.4	▲ 11.4
Viscosity Index (VI)	Scale	ASTM D2270*		<b>149</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0288041 **Received** : 17 Apr 2024  
**Lab Number** : 02629444 **Tested** : 17 Apr 2024  
**Unique Number** : 5762576 **Diagnosed** : 17 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**DAVIS TRADING & SUPPLY LTD.**  
 110 GRANT STREET  
 VANCOUVER, BC  
 CA V6A 2J6  
 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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