



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id  
**LIEBHERR L586 045792**  
Component  
**Transmission (Manual)**  
Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of water entry. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0278650</b>	LH0270320	LH
Sample Date		Client Info		<b>21 Jan 2024</b>	12 Sep 2023	22 Oct 2020
Machine Age	hrs	Client Info		<b>18497</b>	17581	9591
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>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>87</b>	46	11
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>3</b>	2	1
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>225	<b>3</b>	6	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

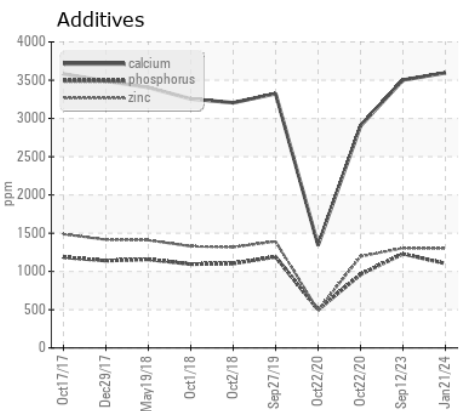
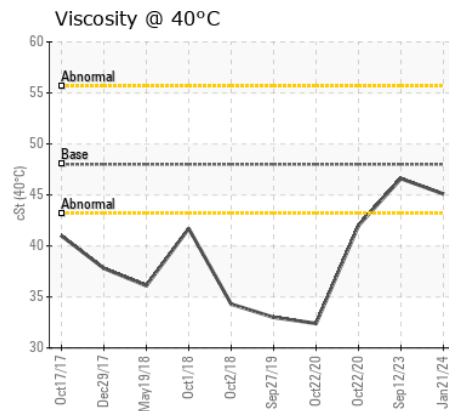
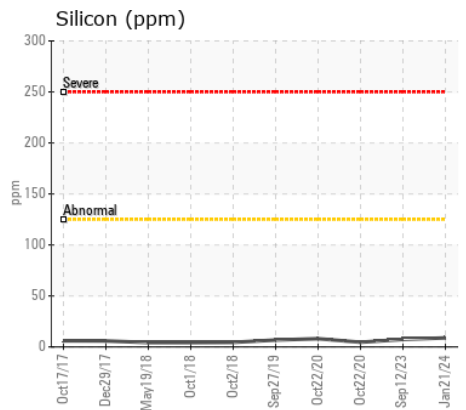
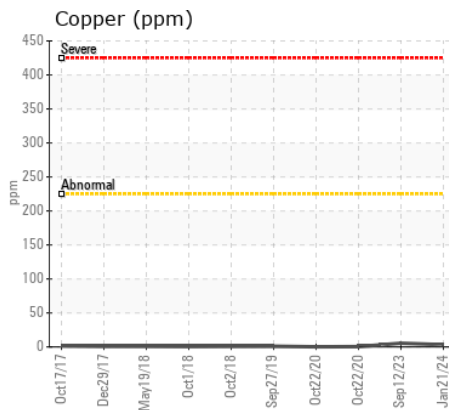
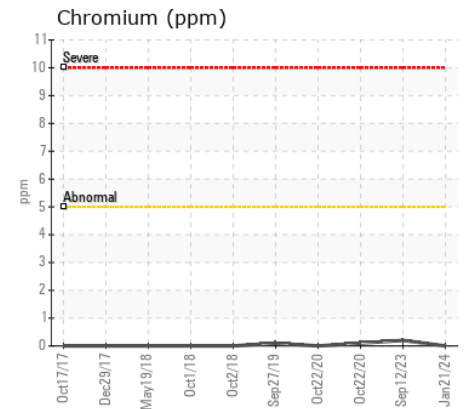
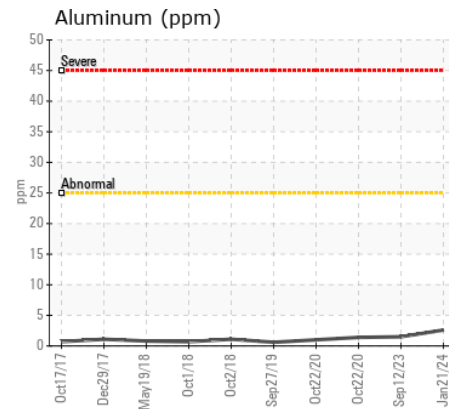
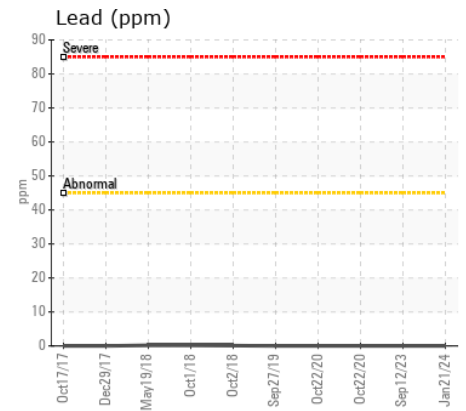
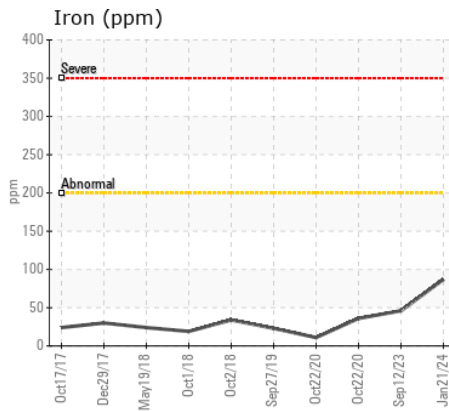
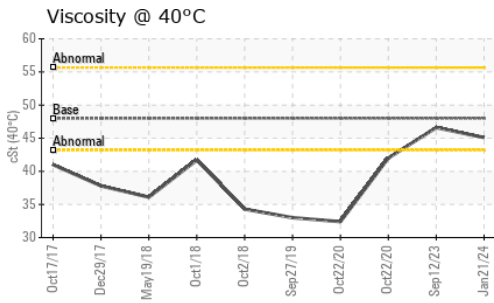
Free water present.

Silicon	ppm	ASTM D5185(m)	>125	<b>9</b>	7	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>WGOIL</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The fluid is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	7
Boron	ppm	ASTM D5185(m)	10	<b>67</b>	75	105
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	100	<b>15</b>	11	16
Calcium	ppm	ASTM D5185(m)	3500	<b>3596</b>	3502	2903
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1103</b>	1230	961
Zinc	ppm	ASTM D5185(m)	1150	<b>1302</b>	1305	1195
Sulfur	ppm	ASTM D5185(m)	5000	<b>3149</b>	3447	2603
Visc @ 40°C	cSt	ASTM D7279(m)	48	<b>45.1</b>	46.6	42.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0278650 **Received** : 22 Jan 2024  
**Lab Number** : 02610330 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5711416 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

**CBM Aggregates**  
 135 West Beaver Creek Road  
 Richmond Hill, ON  
 CA L4B 4R7  
 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: