



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH30M 121854-1253**  
Component  
**Transmission (Manual)**  
Fluid  
**CHEVRON DELO LE 5W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0272495</b>	LH0264391	LH0220804
Sample Date		Client Info		<b>02 Jan 2024</b>	08 Aug 2023	05 Dec 2022
Machine Age	hrs	Client Info		<b>6976</b>	6007	3974
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>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>10</b>	21	16
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>87</b>	92	88
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>22</b>	▲ 41	▲ 32
Lead	ppm	ASTM D5185m	>45	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>225	<b>9</b>	18	21
Tin	ppm	ASTM D5185m	>10	<b>0</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the fluid.

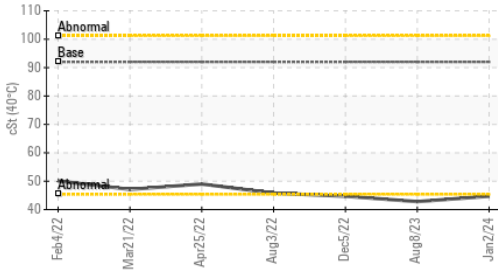
Silicon	ppm	ASTM D5185m	>125	<b>3</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</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

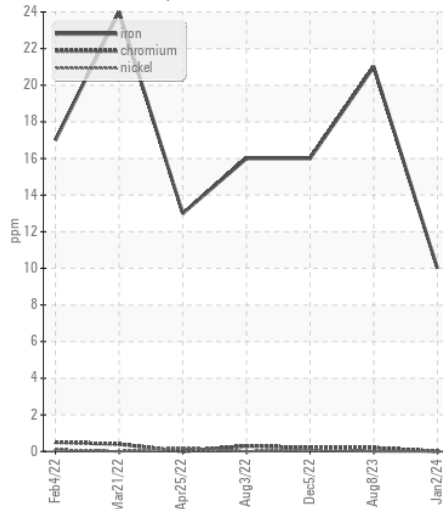
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	5
Boron	ppm	ASTM D5185m	66	<b>146</b>	179	159
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	70	<b>3</b>	4	5
Manganese	ppm	ASTM D5185m		<b>2</b>	6	5
Magnesium	ppm	ASTM D5185m	1230	<b>627</b>	620	608
Calcium	ppm	ASTM D5185m	930	<b>1286</b>	1405	1533
Phosphorus	ppm	ASTM D5185m	1230	<b>903</b>	1049	1023
Zinc	ppm	ASTM D5185m	1310	<b>1099</b>	1140	1184
Sulfur	ppm	ASTM D5185m	3460	<b>3528</b>	4019	4621
Visc @ 40°C	cSt	ASTM D445	92	<b>44.7</b>	42.8	44.7

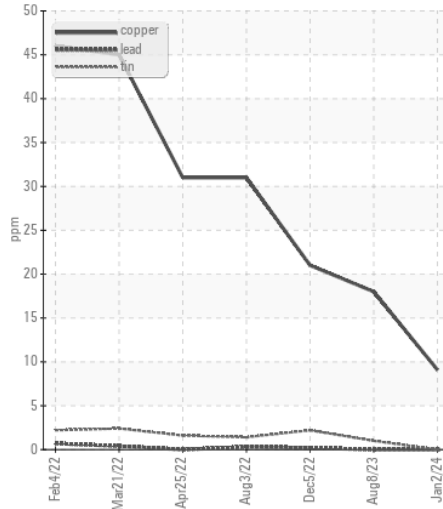
Viscosity @ 40°C



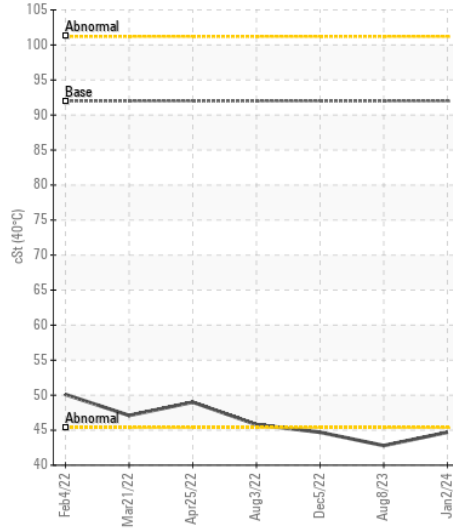
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LH0272495  
**Lab Number** : 06058922  
**Unique Number** : 10830304  
**Test Package** : CONST

**Received** : 11 Jan 2024  
**Diagnosed** : 15 Jan 2024  
**Diagnostician** : Don Baldrige

**AMERICAN STATE EQUIPMENT CO.**  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)