

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-108671 - Transmission (Manual)

Sample No: LH0258758

Oil Type: CHEVRON DELO LE 5W40



**AMERICAN STATE EQUIPMENT CO.**  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0258758</b>	LH0263999	LH0243420	LH0254785
Sample Date	<b>23 Feb 2024</b>	14 Dec 2023	05 Sep 2023	12 Apr 2023
Machine Hours	<b>20036</b>	19125	17864	16979
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>52.5</b>	52.1	55.8	48.1
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>7</b>	5	6	6
Sodium	ppm	<b>3</b>	2	3	3
Potassium	ppm	<b>3</b>	1	2	0



#### WEAR METALS

Iron	ppm	<b>11</b>	2	5	6
Copper	ppm	<b>4</b>	2	4	4
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	<1	2	0
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>5</b>	5	11	5
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>84</b>	85	80	95
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	1	2
Vanadium	ppm	<b>&lt;1</b>	<1	<1	<1



#### ADDITIVES

Calcium	ppm	<b>1256</b>	1301	1427	1405
Magnesium	ppm	<b>698</b>	683	746	648
Zinc	ppm	<b>1161</b>	1155	1232	1155
Phosphorus	ppm	<b>1053</b>	1050	1048	1018
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>157</b>	150	161	177

#### Diagnosis

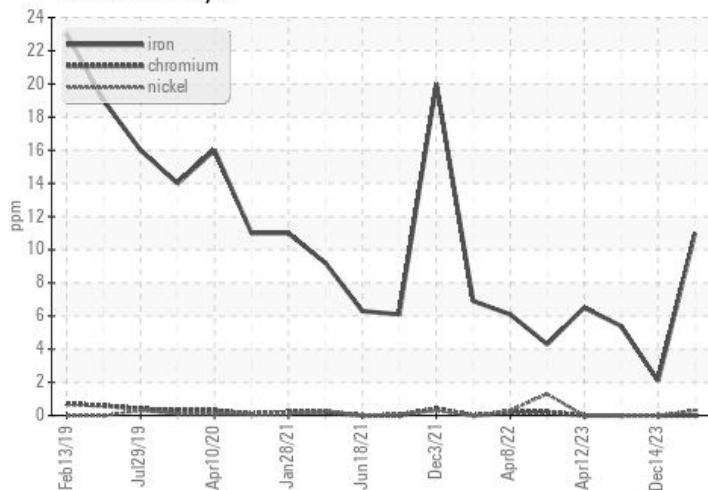
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10915880  
 Signed: Jonathan Hester  
 Report Date: 11 Mar 2024

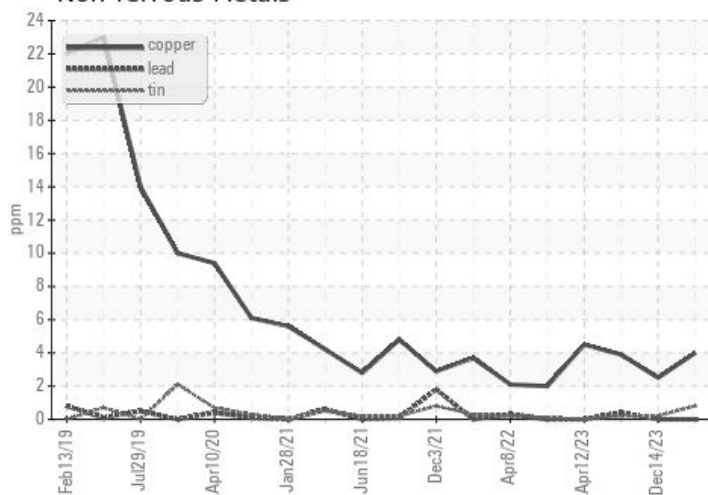


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

