

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0263999

Oil Type: CHEVRON DELO LE 5W40



**AMERICAN STATE EQUIPMENT CO.**  
 2400 NORTH 14TH AVENUE  
 WAUSAU, WI  
 US 54401  
 Contact: CHRIS BARTNIK  
 cbartnik@amstate.com  
 T: (715)675-6900  
 F: (715)675-9748



#### SAMPLE INFORMATION

Sample Number	LH0263999	LH0243420	LH0254785	LH0203906
Sample Date	14 Dec 2023	05 Sep 2023	12 Apr 2023	17 Jun 2022
Machine Hours	19125	17864	16979	14203
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	52.1	55.8	48.1	53.8



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	6	6	4
Sodium	ppm	2	3	3	3
Potassium	ppm	1	2	0	3



#### WEAR METALS

Iron	ppm	2	5	6	4
Copper	ppm	2	4	4	2
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	<1	2	0	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	5	11	5	4
Nickel	ppm	0	0	0	1
Titanium	ppm	85	80	95	89
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	2	<1
Vanadium	ppm	<1	<1	<1	<1



#### ADDITIVES

Calcium	ppm	1301	1427	1405	1363
Magnesium	ppm	683	746	648	643
Zinc	ppm	1155	1232	1155	1230
Phosphorus	ppm	1050	1048	1018	1051
Barium	ppm	0	0	0	0
Boron	ppm	150	161	177	174

#### Diagnosis

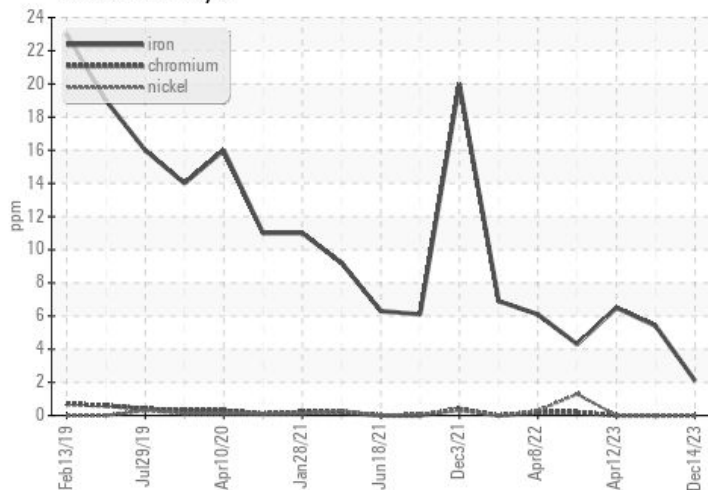
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10806317  
 Signed: Don Baldrige  
 Report Date: 28 Dec 2023

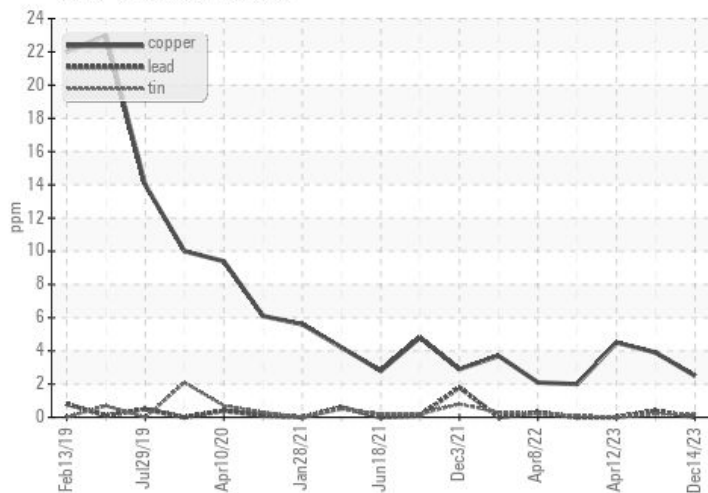


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

