

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1203-81839 - Transmission

Sample No: LH0243708

Oil Type: DIESEL ENGINE OIL SAE 5W30



**AMERICAN STATE EQUIPMENT CO.**  
 2055 SOUTH 108TH STREET  
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 US 53227  
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#### SAMPLE INFORMATION

Sample Number	LH0243708	LHMC146528	LHMC121975	---
Sample Date	27 Sep 2023	15 May 2019	28 Dec 2017	---
Machine Hours	0	4996	1969	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---



#### OIL CONDITION

Visc @ 40°C	cSt	46.7	52.5	44.42	---
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#### CONTAMINATION

Silicon	ppm	5	4	3	---
Sodium	ppm	7	10	22	---
Potassium	ppm	<1	0	1	---



#### WEAR METALS

Iron	ppm	21	18	29	---
Copper	ppm	26	43	46	---
Lead	ppm	<1	1	<1	---
Tin	ppm	2	0	2	---
Aluminum	ppm	0	3	4	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	8	9	29	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	37	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	20	32	42	---
Vanadium	ppm	<1	<1	0	---



#### ADDITIVES

Calcium	ppm	2035	3381	2515	---
Magnesium	ppm	448	22	21	---
Zinc	ppm	1010	998	839	---
Phosphorus	ppm	899	965	837	---
Barium	ppm	0	<1	<1	---
Boron	ppm	170	138	78	---

#### Diagnosis

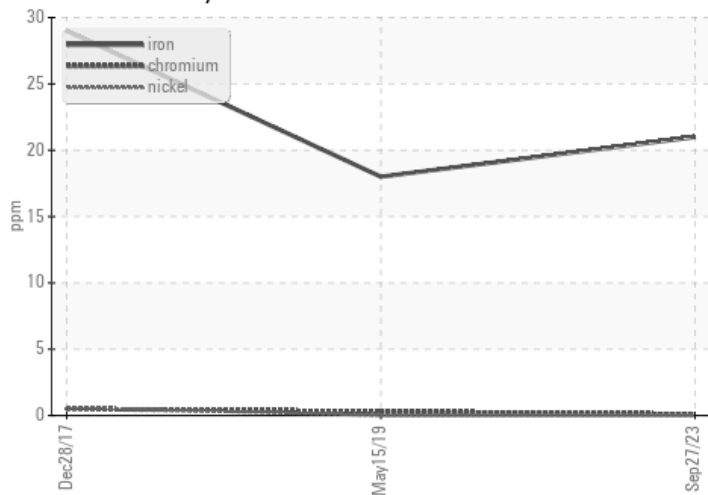
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0007  
 Unique No: 10673837  
 Signed: Don Baldrige  
 Report Date: 04 Oct 2023

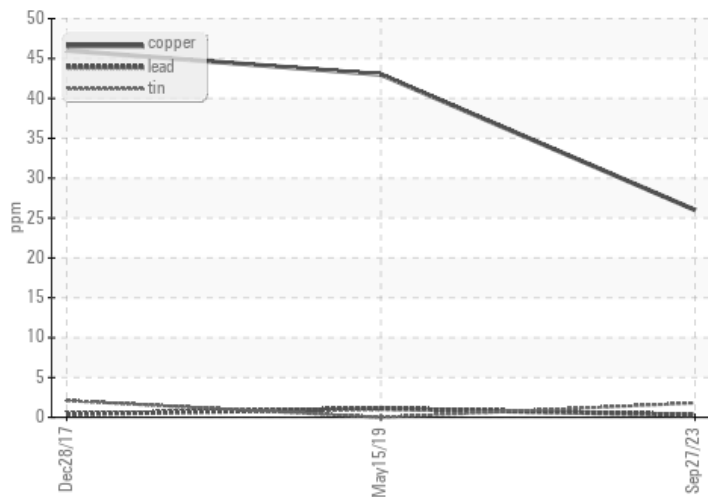


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

