

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-118289 - Front Differential

Sample No: LH06135813

Oil Type: {unknown}



**KOVALCHICK CORP**  
1060 WAYNE AVENUE  
INDIANA, PA  
US 15701  
Contact: Service Manager



#### Sample Information

Sample Number	LH06135813	LH05695873	LH05370580	---
Sample Date	31 Mar 2024	15 Nov 2022	10 Oct 2021	---
Machine Hours	5050	0	1635	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---



#### Oil Condition

Visc @ 40°C	cSt	184	184	185	---
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T:  
F:



#### Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	7	4	4	---
Sodium	ppm	4	2	2	---
Potassium	ppm	1	0	0	---

#### Diagnosis

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



#### Wear Metals

Iron	ppm	78	50	31	---
Copper	ppm	19	14	11	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	1	5	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	2	1	<1	---
Vanadium	ppm	0	0	0	---



#### Additives

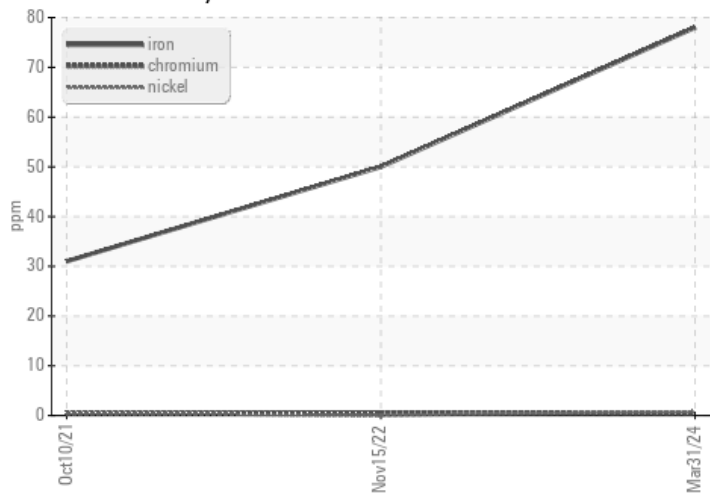
Calcium	ppm	18	6	16	---
Magnesium	ppm	<1	0	4	---
Zinc	ppm	21	0	7	---
Phosphorus	ppm	1212	1074	1154	---
Barium	ppm	379	340	380	---
Boron	ppm	0	4	7	---

Depot: KOVIND  
Unique No: 10955278  
Signed: Don Baldrige  
Report Date: 04 Apr 2024

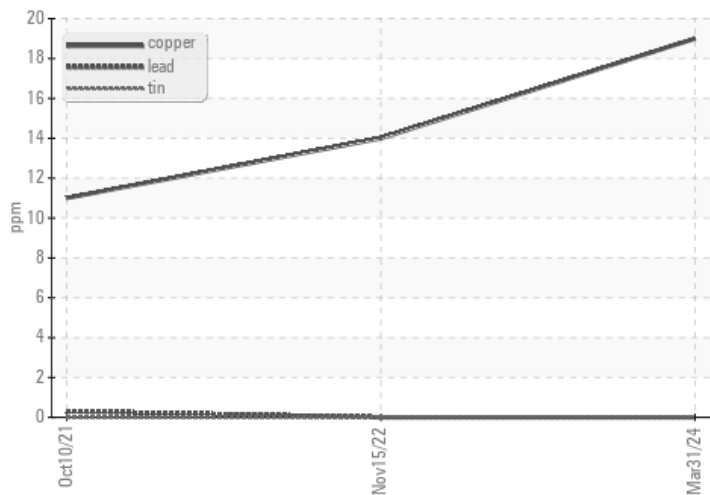


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

