

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 091330-1253 - Swing Drive

Sample No: LH0244692

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0244692	LHMC114841	LH0208040	LH0166167
Sample Date	14 Jun 2023	13 Dec 2022	10 Nov 2021	12 Jan 2021
Machine Hours	12681	11780	9754	8185
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	SEVERE	ABNORMAL	SEVERE

**DUMES INC**  
1640 NORTH 6TH ST  
VINCENNES, IN  
US 47591  
Contact:



#### OIL CONDITION

Visc @ 40°C	cSt	213	177	186	223
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T:  
F:



#### CONTAMINATION

Water	%	---	6.74	1.19	---
Silicon	ppm	3	4	4	8
Sodium	ppm	2	<1	4	8
Potassium	ppm	1	<1	3	2

#### 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	870	962	488	3443
Copper	ppm	123	121	54	714
Lead	ppm	0	<1	<1	2
Tin	ppm	13	6	2	0
Aluminum	ppm	<1	3	<1	1
Chromium	ppm	8	11	4	37
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	0	1	2	3
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	6	8	5	27
Vanadium	ppm	0	<1	0	0



#### ADDITIVES

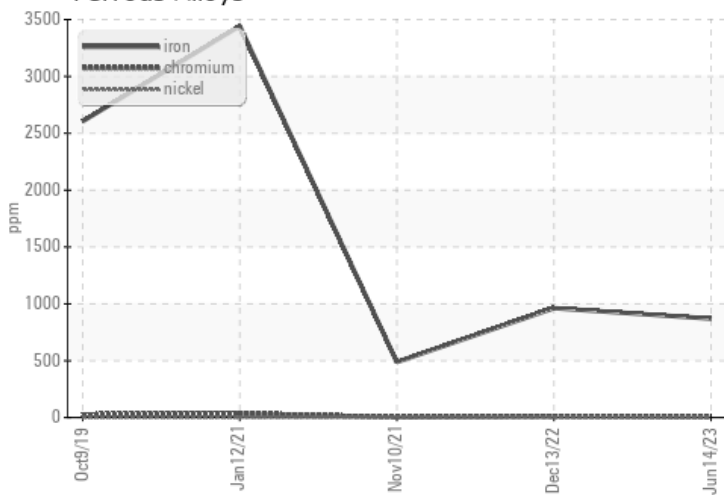
Calcium	ppm	45	68	151	21
Magnesium	ppm	6	4	8	18
Zinc	ppm	48	114	48	132
Phosphorus	ppm	1881	1695	2437	1947
Barium	ppm	0	5	10	4
Boron	ppm	0	6	6	14

Depot: DUMVINLH  
Unique No: 10536739  
Signed: Doug Bogart  
Report Date: 02 Jul 2023

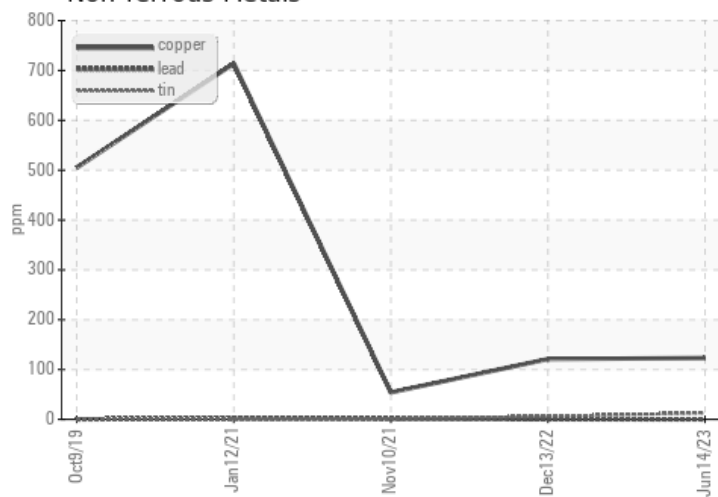


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

