

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 1200-74074 - Diesel Engine

Sample No: LH0243223

Oil Type: DIESEL ENGINE OIL SAE 5W30



#### SAMPLE INFORMATION

Sample Number	LH0243223	LH0244685	LHMC102873	LH0203811
Sample Date	13 Mar 2024	12 Jun 2023	13 Dec 2022	09 Nov 2021
Machine Hours	0	17100	16554	14753
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

DUMES INC

1640 NORTH 6TH ST  
VINCENNES, IN  
US 47591

Contact:



#### OIL CONDITION

Visc @ 100°C	cSt	11.7	11.8	13.6	12.7
Base Number (BN)	mg KOH/g	7.2	6.9	6.2	---
Oxidation (PA)	%	94	83	98	101

T:

F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.9	0.7	2.4	1.3
Nitration (PA)	%	98	84	122	112
Sulfation (PA)	%	63	57	86	76
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	8	8
Sodium	ppm	3	1	4	6
Potassium	ppm	2	1	3	<1

#### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	16	16	63	48
Copper	ppm	7	5	9	5
Lead	ppm	3	0	3	2
Tin	ppm	1	<1	1	<1
Aluminum	ppm	4	5	10	6
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	42	47	67	66
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

Calcium	ppm	1265	1416	2201	1005
Magnesium	ppm	763	842	149	1186
Zinc	ppm	758	946	1360	1355
Phosphorus	ppm	620	723	1020	1093
Barium	ppm	0	0	0	0
Boron	ppm	29	65	31	0

Depot: DUMVINLH

Unique No: 10926870

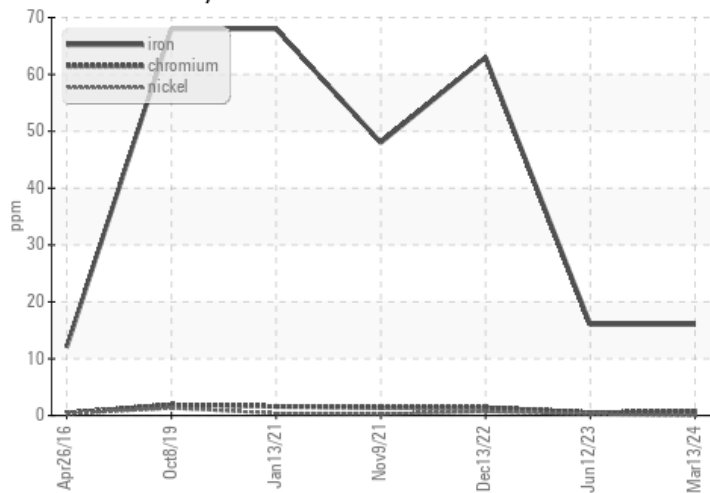
Signed: Don Baldrige

Report Date: 15 Mar 2024

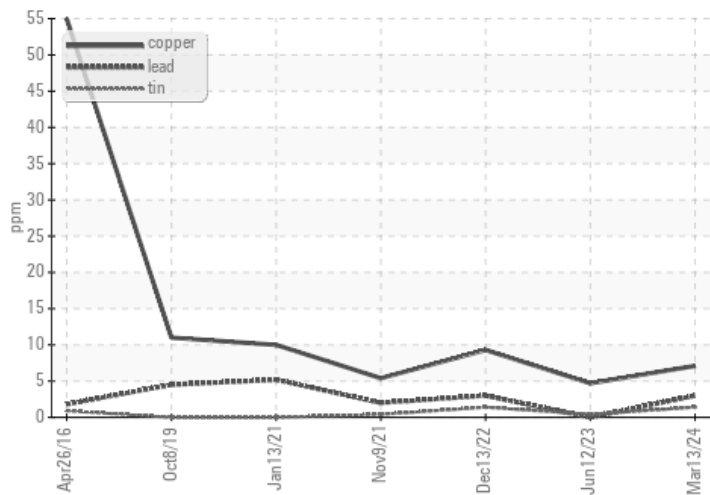


### GRAPHS

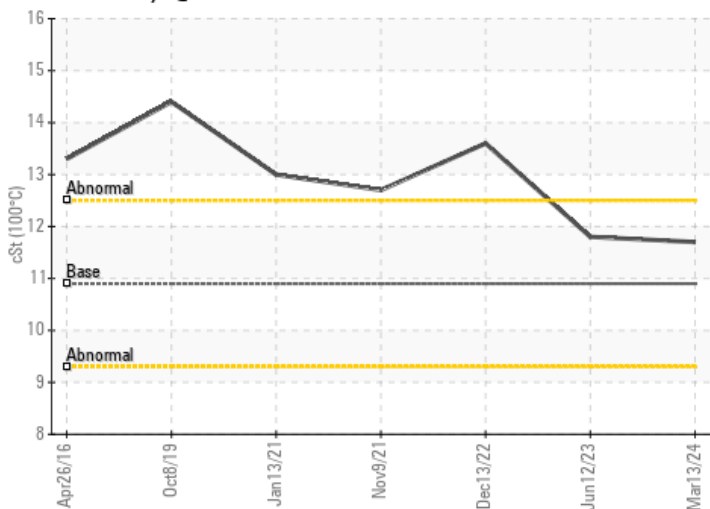
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

