

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1200-74074 - Diesel Engine

Sample No: LH0244685

Oil Type: DIESEL ENGINE OIL SAE 5W30



SAMPLE INFORMATION

Sample Number	LH0244685	LHMC102873	LH0203811	LHMC124962
Sample Date	12 Jun 2023	13 Dec 2022	09 Nov 2021	13 Jan 2021
Machine Hours	17100	16554	14753	13081
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	ATTENTION

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



OIL CONDITION

Visc @ 100°C	cSt	11.8	13.6	12.7	13.0
Base Number (BN)	mg KOH/g	6.9	6.2	---	---
Oxidation (PA)	%	83	98	101	122

T:
F:



CONTAMINATION

Soot %	%	0.7	2.4	1.3	1.1
Nitration (PA)	%	84	122	112	132
Sulfation (PA)	%	57	86	76	83
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	8	11
Sodium	ppm	1	4	6	8
Potassium	ppm	1	3	<1	2

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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 suitable for further service.



WEAR METALS

Iron	ppm	16	63	48	68
Copper	ppm	5	9	5	10
Lead	ppm	0	3	2	5
Tin	ppm	<1	1	<1	0
Aluminum	ppm	5	10	6	8
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	47	67	66	55
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

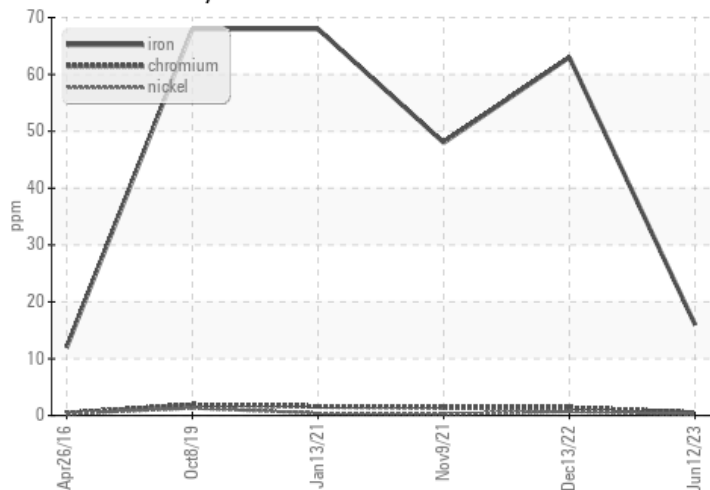
Calcium	ppm	1416	2201	1005	1411
Magnesium	ppm	842	149	1186	1019
Zinc	ppm	946	1360	1355	1286
Phosphorus	ppm	723	1020	1093	1054
Barium	ppm	0	0	0	2
Boron	ppm	65	31	0	7

Depot: DUMVINLH
Unique No: 10536530
Signed: Wes Davis
Report Date: 02 Jul 2023

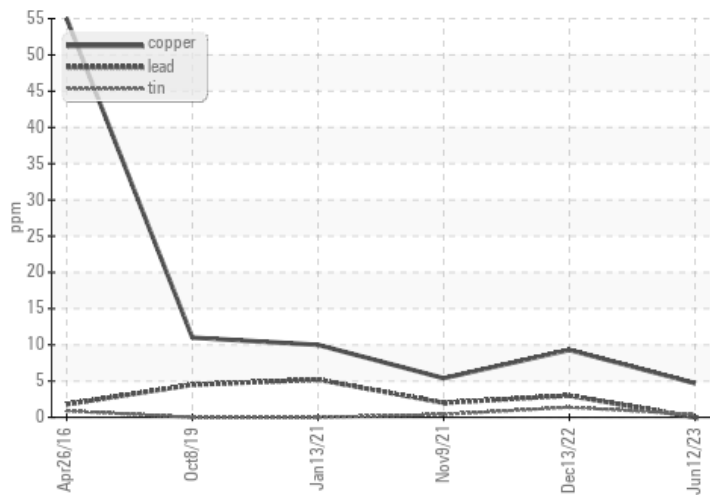


GRAPHS

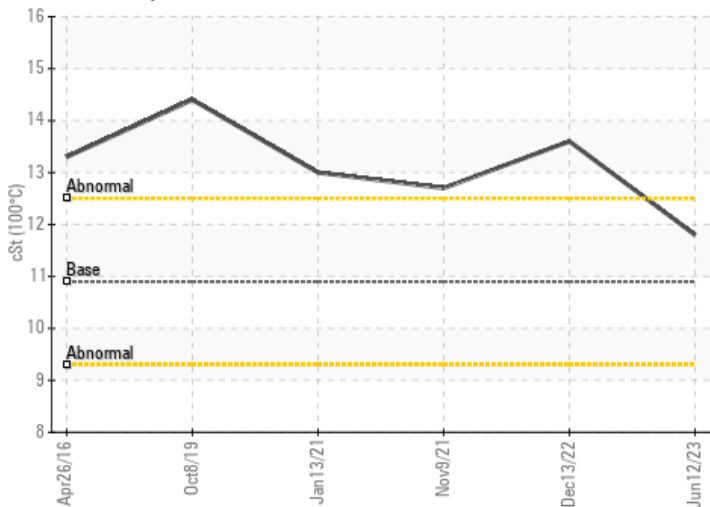
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

