

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1200-79283 - Diesel Engine

Sample No: LH0272379

Oil Type: DIESEL ENGINE OIL SAE 5W30



Sample Information

Sample Number	LH0272379	LH0267328	LH0203825	LH0208036
Sample Date	10 Jun 2024	14 Mar 2024	22 Dec 2022	08 Nov 2021
Machine Hours	21047	20566	17772	14523
Oil Hours	0	1000	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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Oil Condition

Visc @ 100°C	cSt	13.3	14.0	13.7	14.6
Base Number (BN)	mg KOH/g	6.7	10.0	8.5	---
Oxidation (PA)	%	48	61	67	92



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.2	0.4	0.5
Nitration (PA)	%	66	58	78	100
Sulfation (PA)	%	53	51	54	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	5	7
Sodium	ppm	3	0	6	23
Potassium	ppm	5	2	1	3

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 suitable for further service.



Wear Metals

Iron	ppm	14	5	7	26
Copper	ppm	6	1	2	3
Lead	ppm	0	<1	<1	7
Tin	ppm	0	<1	<1	0
Aluminum	ppm	9	7	2	4
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	17	63	63	71
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	<1	0	0



Additives

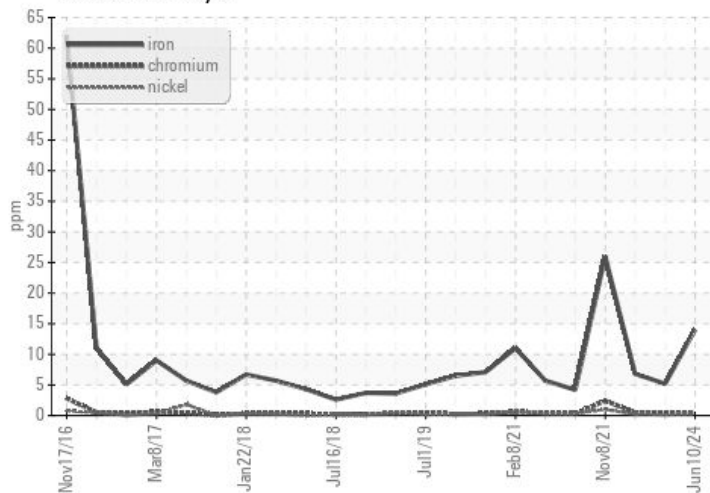
Calcium	ppm	2223	1208	1226	1420
Magnesium	ppm	203	969	981	1027
Zinc	ppm	1165	1286	1381	1400
Phosphorus	ppm	1004	1031	1047	1122
Barium	ppm	0	2	0	0
Boron	ppm	4	6	2	0

Depot: GREPRILH
Unique No: 11085721
Signed: Angela Borella
Report Date: 19 Jun 2024

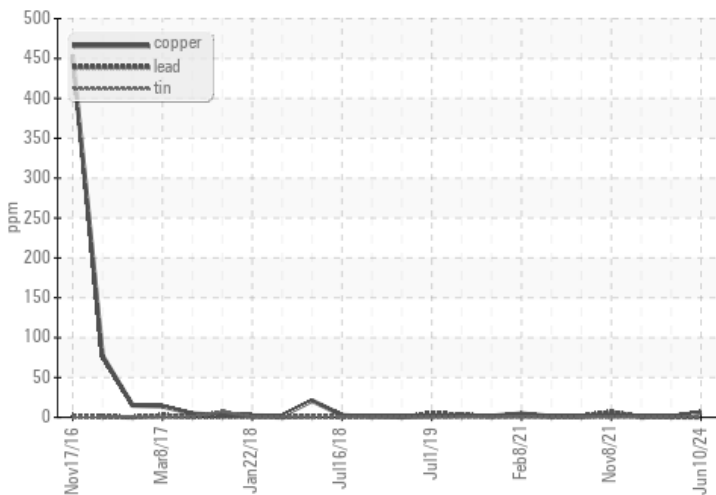


Graphs

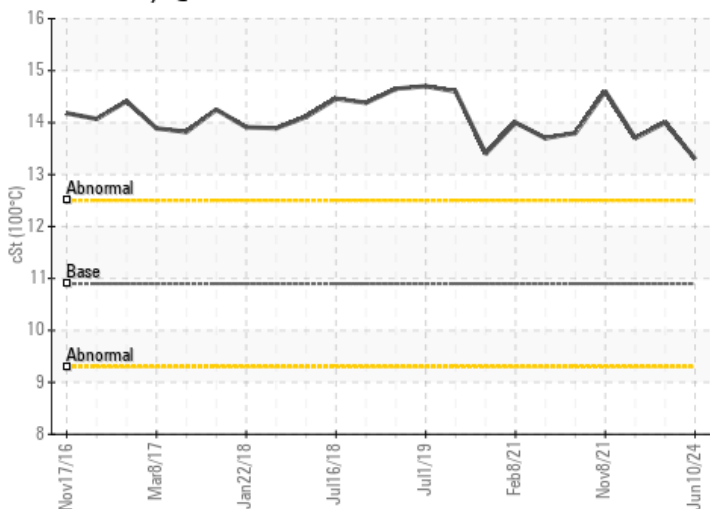
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

