

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 050779-1214 - Diesel Engine

Sample No: LH0243138

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



SAMPLE INFORMATION

Sample Number	LH0243138	LH0243139	LH0207890	---
Sample Date	11 Apr 2023	13 Dec 2022	08 Apr 2022	---
Machine Hours	1453	939	476	---
Oil Hours	514	939	476	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

TIMBER PRODUCTS

11256 E STATE HWY M28
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US 49862
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F:



OIL CONDITION

Visc @ 100°C	cSt	11.3	10.8	11.7	---
Base Number (BN)	mg KOH/g	6.2	5.8	5.4	---
Oxidation (PA)	%	59	64	178	---

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	75	68	88	---
Sulfation (PA)	%	56	58	104	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	8	11	---
Sodium	ppm	3	3	3	---
Potassium	ppm	6	22	8	---



WEAR METALS

Iron	ppm	5	5	11	---
Copper	ppm	61	136	185	---
Lead	ppm	<1	<1	5	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	1	3	2	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	1	14	42	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	1	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

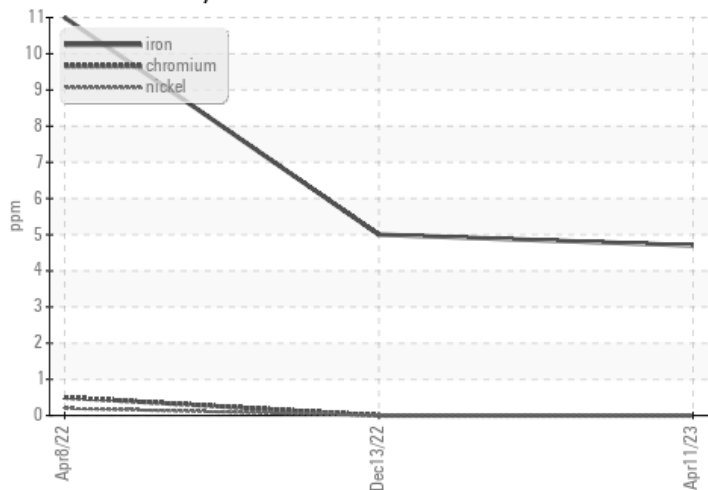
Calcium	ppm	1216	1173	1386	---
Magnesium	ppm	630	590	876	---
Zinc	ppm	684	662	862	---
Phosphorus	ppm	664	655	714	---
Barium	ppm	<1	5	31	---
Boron	ppm	64	76	114	---

Depot: TIMMUN
Unique No: 10896466
Signed: Wes Davis
Report Date: 26 Feb 2024

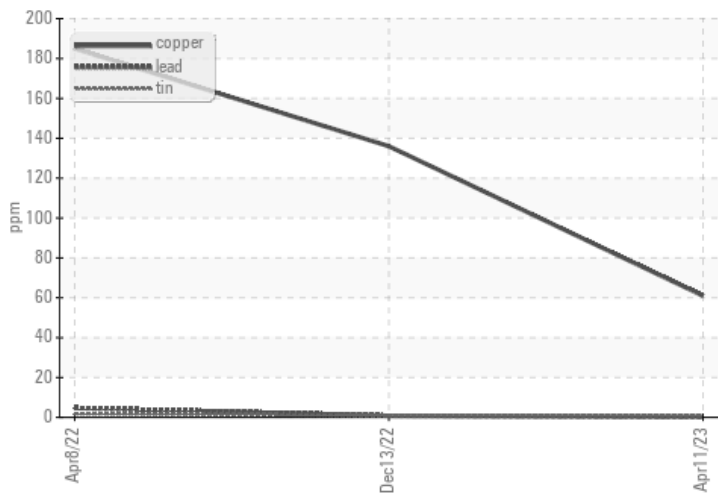


GRAPHS

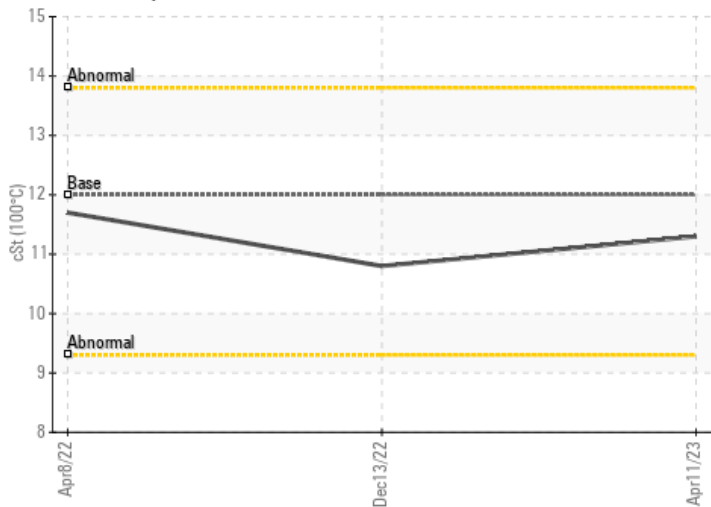
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

