

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 050779-1214 - Diesel Engine

Sample No: LH0243136

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



SAMPLE INFORMATION

Sample Number	LH0243136	LH0243137	LH0243138	LH0243139
Sample Date	08 Feb 2024	27 Sep 2023	11 Apr 2023	13 Dec 2022
Machine Hours	2491	1954	1453	939
Oil Hours	537	1015	514	939
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

TIMBER PRODUCTS

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US 49862
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OIL CONDITION

Visc @ 100°C	cSt	11.5	10.8	11.3	10.8
Base Number (BN)	mg KOH/g	6.4	5.5	6.2	5.8
Oxidation (PA)	%	59	73	59	64



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.1	0.1
Nitration (PA)	%	74	89	75	68
Sulfation (PA)	%	53	64	56	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	7	8
Sodium	ppm	3	4	3	3
Potassium	ppm	5	16	6	22



WEAR METALS

Iron	ppm	4	12	5	5
Copper	ppm	8	67	61	136
Lead	ppm	<1	4	<1	<1
Tin	ppm	<1	2	<1	<1
Aluminum	ppm	<1	2	1	3
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	2	1	14
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1217	1201	1216	1173
Magnesium	ppm	614	628	630	590
Zinc	ppm	653	647	684	662
Phosphorus	ppm	643	629	664	655
Barium	ppm	0	2	<1	5
Boron	ppm	66	22	64	76

Diagnosis

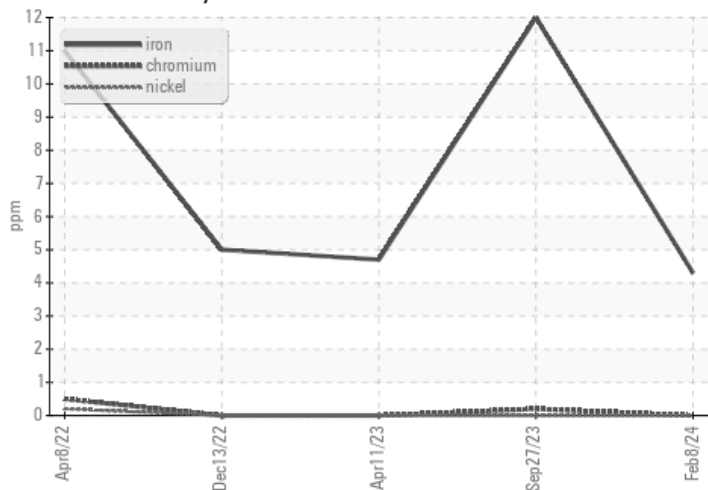
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: TIMMUN
Unique No: 10896468
Signed: Wes Davis
Report Date: 26 Feb 2024

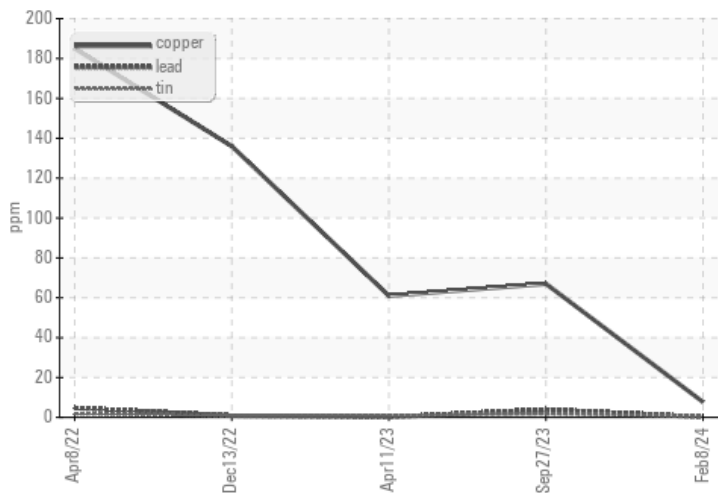


GRAPHS

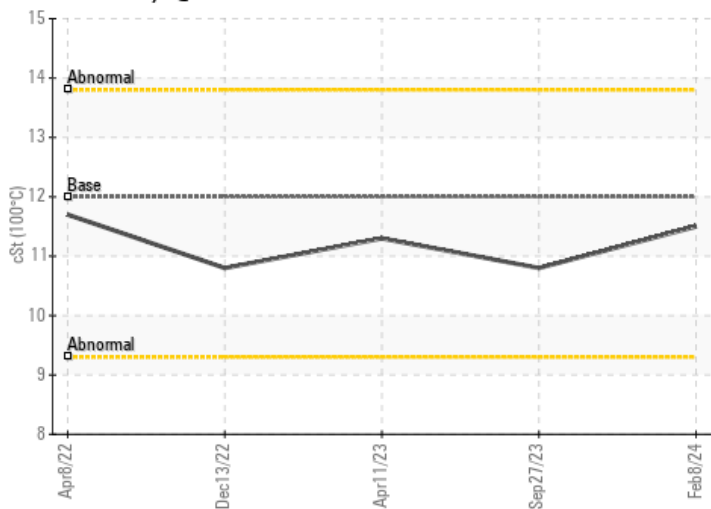
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

