

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 TIMBER 1474-138132 - Diesel Engine

Sample No: LH0267620

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
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SAMPLE INFORMATION

Sample Number	LH0267620	---	---	---
Sample Date	14 Mar 2024	---	---	---
Machine Hours	3100	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	● 11.8	---	---	---
Base Number (BN)	mg KOH/g	● 7.1	---	---	---
Oxidation (PA)	%	106	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	● 0.1	---	---	---
Nitration (PA)	%	152	---	---	---
Sulfation (PA)	%	69	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 8	---	---	---
Sodium	ppm	● 5	---	---	---
Potassium	ppm	● 4	---	---	---



WEAR METALS

Iron	ppm	● 21	---	---	---
Copper	ppm	● 32	---	---	---
Lead	ppm	● 9	---	---	---
Tin	ppm	● 1	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 8	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 3718	---	---	---
Magnesium	ppm	● 101	---	---	---
Zinc	ppm	● 1140	---	---	---
Phosphorus	ppm	● 998	---	---	---
Barium	ppm	● 2	---	---	---
Boron	ppm	● 176	---	---	---

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.

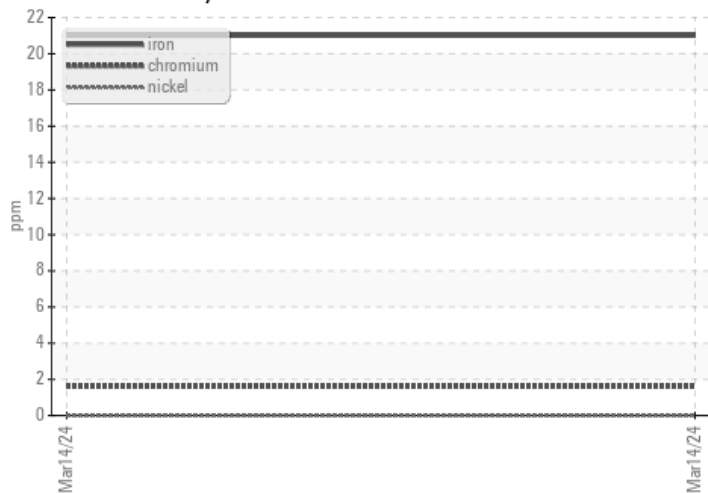
Depot: LIEBHERRNC
Unique No: 10928277
Signed: Don Baldrige
Report Date: 18 Mar 2024

Submitted By: TAYLOR BLALOCK

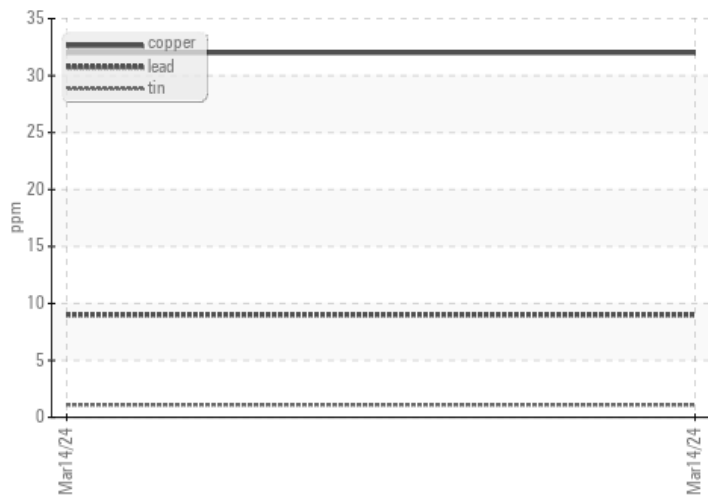


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

