

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 119208-1217 - Diesel Engine

Sample No: LH0272020

Oil Type: LIEBHERR MOTOROIL 5W30



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
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Sample Information

Sample Number	LH0272020	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	5208	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 100°C	cSt	● 11.5	---	---	---
Base Number (BN)	mg KOH/g	● 6.1	---	---	---
Oxidation (PA)	%	74	---	---	---



Contamination

Water	%	NEG	---	---	---
Soot %	%	● 0.1	---	---	---
Nitration (PA)	%	85	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 8	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 3	---	---	---



Wear Metals

Iron	ppm	● 3	---	---	---
Copper	ppm	● 1	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 7	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 1269	---	---	---
Magnesium	ppm	● 770	---	---	---
Zinc	ppm	● 881	---	---	---
Phosphorus	ppm	● 806	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 43	---	---	---

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.

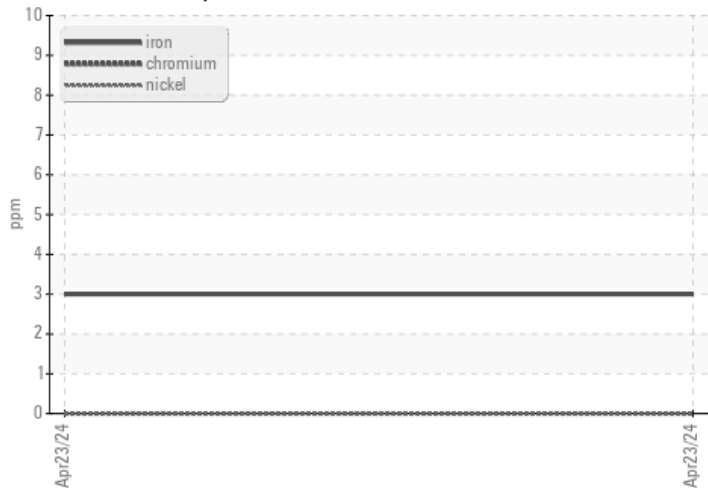
Depot: LIEBHERRNC
Unique No: 10995528
Signed: Don Baldrige
Report Date: 26 Apr 2024

Submitted By: TAYLOR BLALOCK

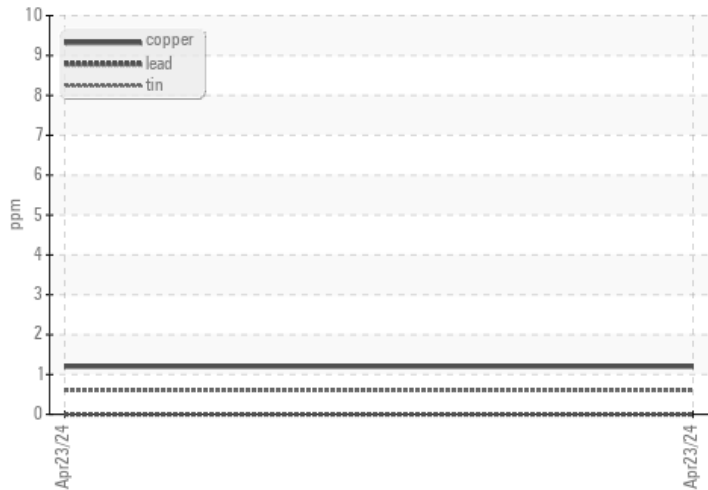


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

