

LIEBHERR

CONSTRUCTION EQUIPMENT



[[USG]] LIEBHERR PR7 66 023058-1681 - Diesel Engine

Sample No: LH0273672

Oil Type: DIESEL ENGINE OIL SAE 5W30



RECO EQUIPMENT INC
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Sample Information

Sample Number	LH0273672	---	---	---
Sample Date	15 May 2024	---	---	---
Machine Hours	946	---	---	---
Oil Hours	946	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 100°C	cSt	● 11.6	---	---	---
Base Number (BN)	mg KOH/g	● 14.5	---	---	---
Oxidation (PA)	%	65	---	---	---



Contamination

Water	%	NEG	---	---	---
Soot %	%	● 0.1	---	---	---
Nitration (PA)	%	87	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 8	---	---	---
Sodium	ppm	● 5	---	---	---
Potassium	ppm	● 2	---	---	---



Wear Metals

Iron	ppm	● 12	---	---	---
Copper	ppm	● 56	---	---	---
Lead	ppm	● 3	---	---	---
Tin	ppm	● 1	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 9	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	● <1	---	---	---
Silver	ppm	● <1	---	---	---
Manganese	ppm	● 1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 3803	---	---	---
Magnesium	ppm	● 200	---	---	---
Zinc	ppm	● 1166	---	---	---
Phosphorus	ppm	● 988	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 230	---	---	---

Diagnosis

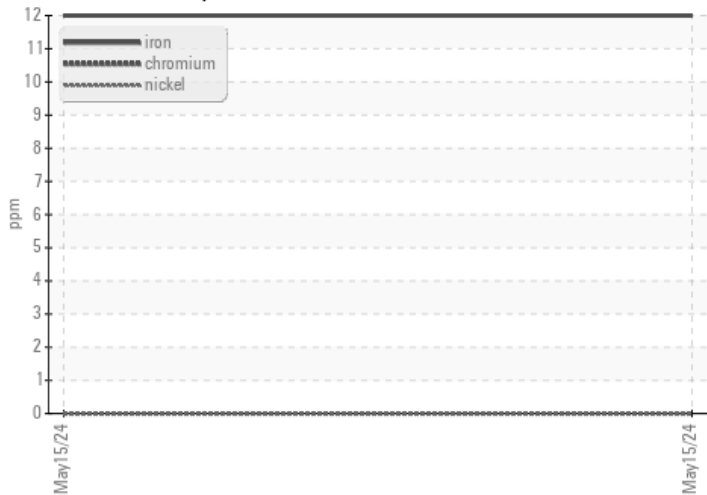
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
Unique No: 11046928
Signed: Angela Borella
Report Date: 29 May 2024

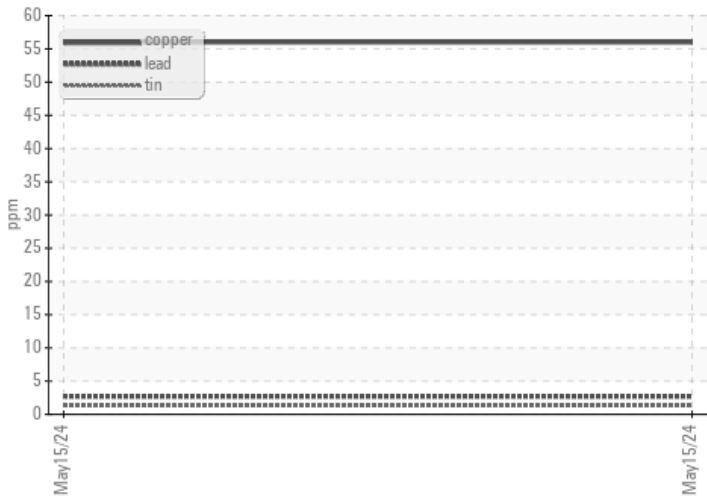


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

