

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR766 027906-1681 - Diesel Engine

Sample No: LH0254257

Oil Type: LIEBHERR MOTOROIL 5W30



HEAVY MACHINES INC.
 3930 EAST RAINES RD
 MEMPHIS, TN
 US 38118
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SAMPLE INFORMATION

Sample Number	LH0254257	---	---	---
Sample Date	07 Mar 2024	---	---	---
Machine Hours	882	---	---	---
Oil Hours	535	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	● 11.5	---	---	---
Base Number (BN)	mg KOH/g	● 7.0	---	---	---
Oxidation (PA)	%	82	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	● 0.1	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 6	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 2	---	---	---



WEAR METALS

Iron	ppm	● 4	---	---	---
Copper	ppm	● 29	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 9	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 1364	---	---	---
Magnesium	ppm	● 767	---	---	---
Zinc	ppm	● 877	---	---	---
Phosphorus	ppm	● 782	---	---	---
Barium	ppm	● 4	---	---	---
Boron	ppm	● 77	---	---	---

Diagnosis

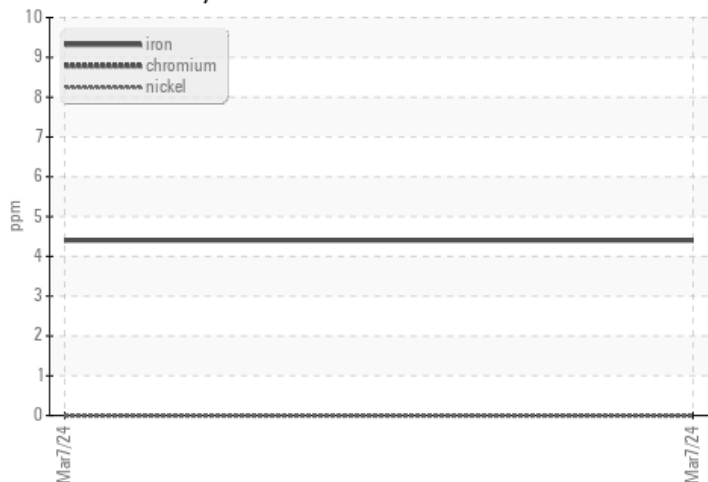
Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LEC0051
Unique No: 10937460
Signed: Sean Felton
Report Date: 22 Mar 2024

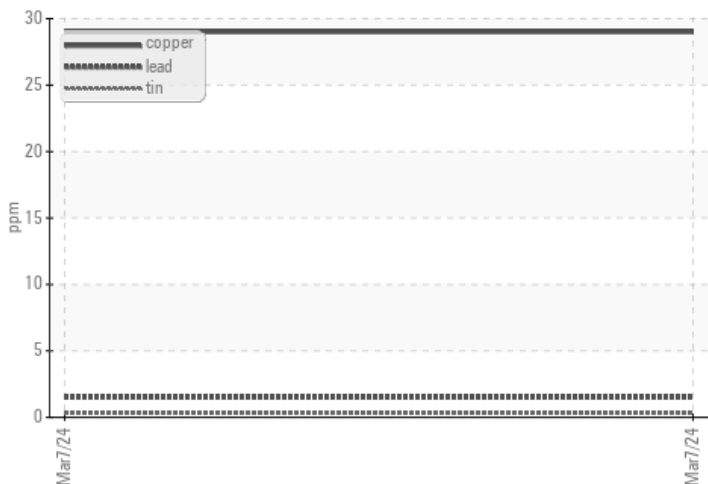


GRAPHS

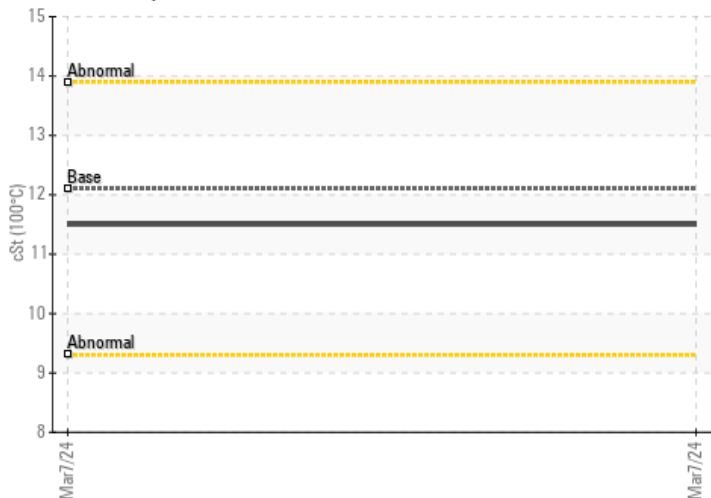
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

