

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR766 027905-1681 - Diesel Engine

Sample No: LH0254459

Oil Type: LIEBHERR MOTOROIL 5W30



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

Sample Number	LH0254459	---	---	---
Sample Date	13 Feb 2024	---	---	---
Machine Hours	346	---	---	---
Oil Hours	346	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	● 11.9	---	---	---
Base Number (BN)	mg KOH/g	● 6.6	---	---	---
Oxidation (PA)	%	190	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	● 0.1	---	---	---
Nitration (PA)	%	75	---	---	---
Sulfation (PA)	%	106	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 9	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● 0	---	---	---



WEAR METALS

Iron	ppm	● 10	---	---	---
Copper	ppm	● 17	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 44	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 1396	---	---	---
Magnesium	ppm	● 951	---	---	---
Zinc	ppm	● 930	---	---	---
Phosphorus	ppm	● 793	---	---	---
Barium	ppm	● 14	---	---	---
Boron	ppm	● 116	---	---	---

Diagnosis

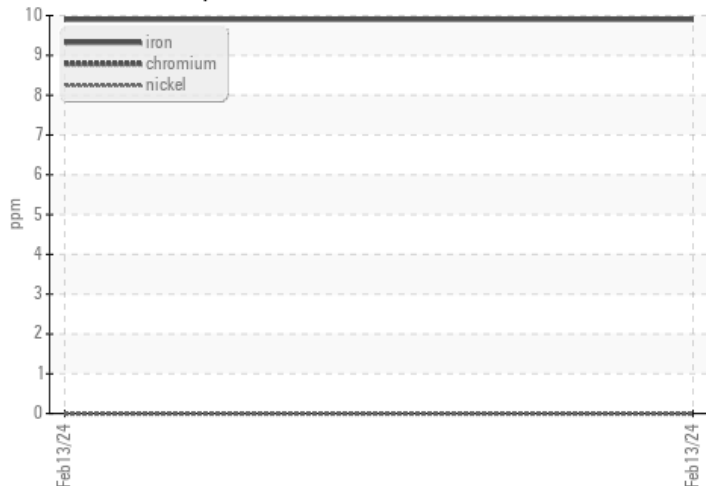
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0051
Unique No: 10887571
Signed: Don Baldrige
Report Date: 22 Feb 2024

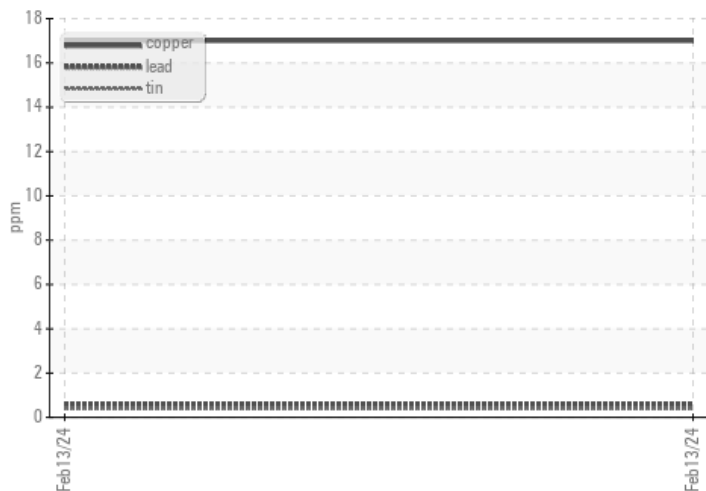


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

