

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R926 056525-1715 - Diesel Engine

Sample No: LH0268485

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
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 joseph.germeroth@liebherr.com
 T:
 F: (919)329-0084



SAMPLE INFORMATION

Sample Number	LH0268485	---	---	---
Sample Date	07 Dec 2023	---	---	---
Machine Hours	840	---	---	---
Oil Hours	840	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	11.6	---	---	---
Base Number (BN)	mg KOH/g	2.7	---	---	---
Oxidation (PA)	%	218	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	107	---	---	---
Sulfation (PA)	%	111	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	14	---	---	---
Sodium	ppm	8	---	---	---
Potassium	ppm	8	---	---	---



WEAR METALS

Iron	ppm	16	---	---	---
Copper	ppm	200	---	---	---
Lead	ppm	11	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	48	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1422	---	---	---
Magnesium	ppm	923	---	---	---
Zinc	ppm	915	---	---	---
Phosphorus	ppm	658	---	---	---
Barium	ppm	22	---	---	---
Boron	ppm	74	---	---	---

Diagnosis

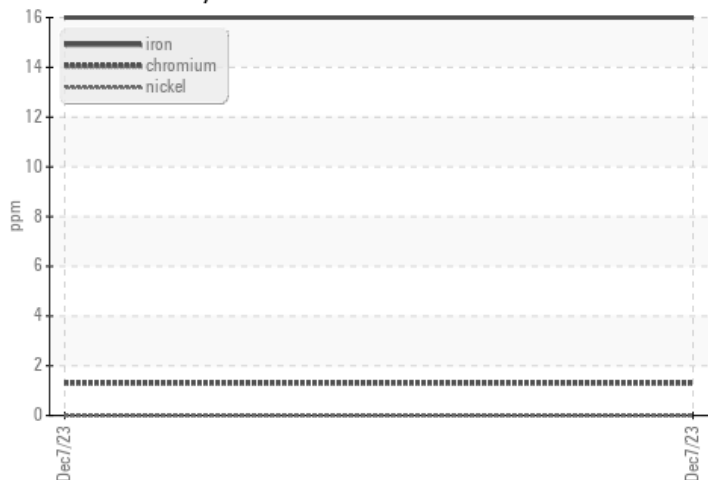
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRNC
Unique No: 10780143
Signed: Don Baldrige
Report Date: 13 Dec 2023

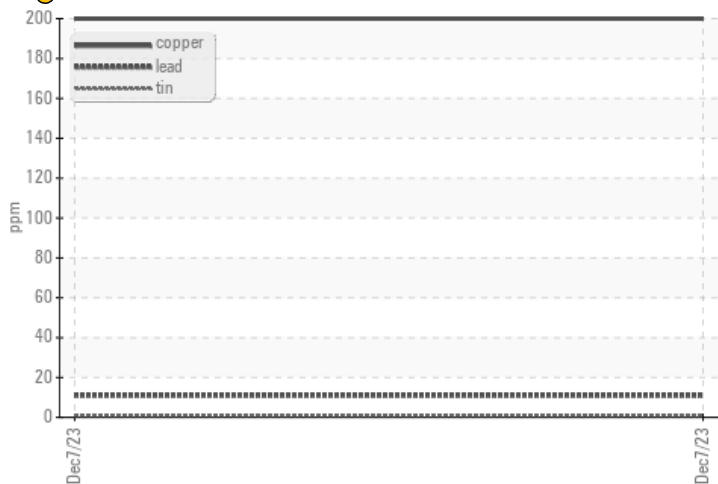


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

