

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R924 049837-1487 - Diesel Engine

Sample No: LH0268530

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



Sample Information

Sample Number	LH0268530	LH0257467	---	---
Sample Date	24 May 2024	20 Jun 2023	---	---
Machine Hours	1516	780	---	---
Oil Hours	800	780	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD
RALEIGH, NC
US 27603

Contact: JOSEPH GERMERO
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T:
F: (919)329-0084



Oil Condition

Visc @ 100°C	cSt	11.8	12.0	---	---
Base Number (BN)	mg KOH/g	6.3	5.8	---	---
Oxidation (PA)	%	73	164	---	---



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	84	108	---	---
Sulfation (PA)	%	60	95	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	12	63	---	---
Sodium	ppm	4	8	---	---
Potassium	ppm	2	3	---	---



Wear Metals

Iron	ppm	28	56	---	---
Copper	ppm	12	52	---	---
Lead	ppm	<1	3	---	---
Tin	ppm	0	1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	36	38	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	4	---	---
Vanadium	ppm	<1	0	---	---



Additives

Calcium	ppm	1484	2253	---	---
Magnesium	ppm	735	750	---	---
Zinc	ppm	921	1111	---	---
Phosphorus	ppm	771	870	---	---
Barium	ppm	1	17	---	---
Boron	ppm	46	96	---	---

Diagnosis

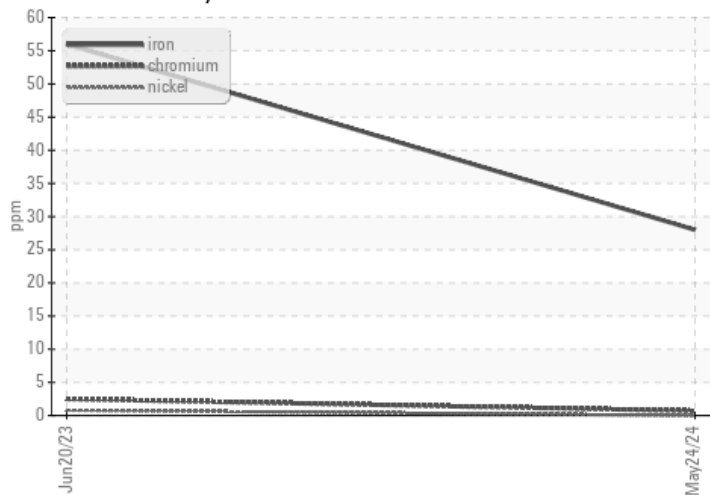
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LIEBHERRNC
Unique No: 11062001
Signed: Wes Davis
Report Date: 06 Jun 2024

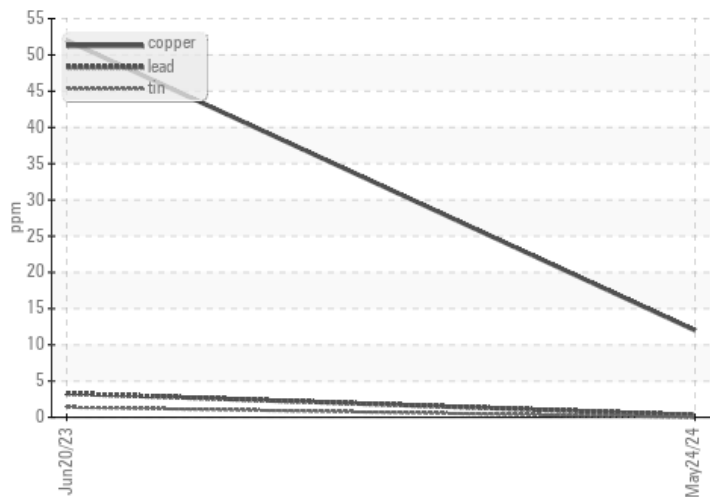


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

