

LIEBHERR

CONSTRUCTION EQUIPMENT



[[ECO BLOCK]] LIEBHERR L566 032676-1168 - Diesel Engine

Sample No: LH0258910

Oil Type: DIESEL ENGINE OIL SAE 5W40



SAMPLE INFORMATION

Sample Number	LH0258910	LH0257961	LHMC89341	---
Sample Date	26 Feb 2024	16 Aug 2023	14 Jul 2014	---
Machine Hours	20859	19833	2540	---
Oil Hours	500	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---

FINKBINER EQUIPMENT CO.

15 W 400 N FRONTAGE RD

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US 60527

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OIL CONDITION

Visc @ 100°C	cSt	15.4	13.7	14.72	---
Base Number (BN)	mg KOH/g	7.6	10.7	---	---
Oxidation (PA)	%	61	86	52	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	1.2	1.1	0.3	---
Nitration (PA)	%	84	79	58	---
Sulfation (PA)	%	61	65	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	8	6	---
Sodium	ppm	0	2	4	---
Potassium	ppm	4	<1	1	---



WEAR METALS

Iron	ppm	44	43	13	---
Copper	ppm	3	1	15	---
Lead	ppm	2	0	1	---
Tin	ppm	1	<1	<1	---
Aluminum	ppm	8	23	3	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	6	39	40	---
Nickel	ppm	1	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	2	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1326	1683	1362	---
Magnesium	ppm	662	520	655	---
Zinc	ppm	832	941	911	---
Phosphorus	ppm	760	778	849	---
Barium	ppm	<1	0	0	---
Boron	ppm	55	51	20	---

Depot: LEC0033

Unique No: 10949839

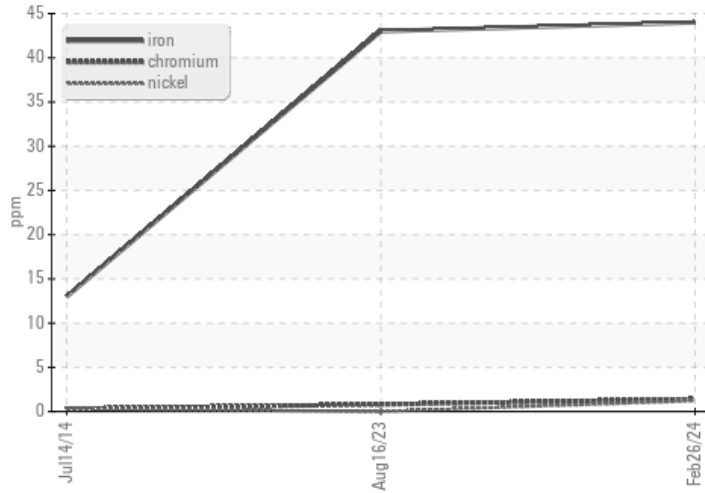
Signed: Wes Davis

Report Date: 28 Mar 2024

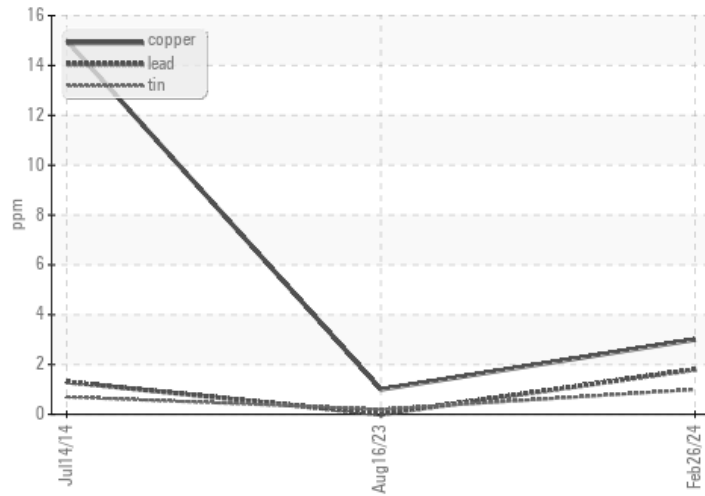


GRAPHS

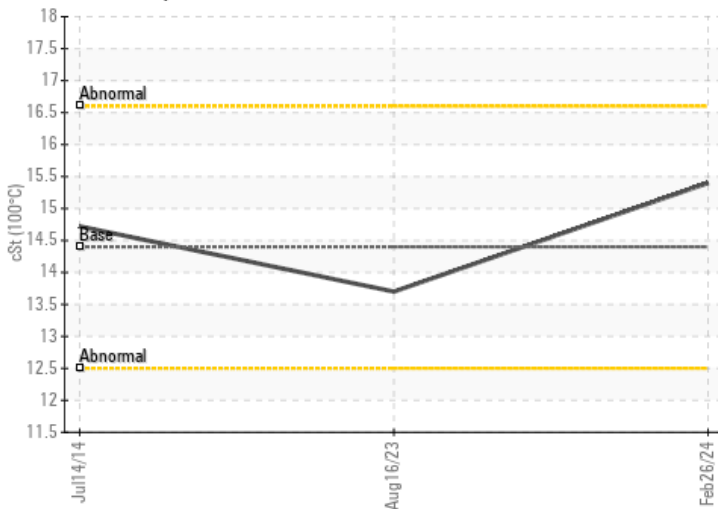
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

