

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 122207-1215 - Diesel Engine

Sample No: LH0273226

Oil Type: DIESEL ENGINE OIL SAE 15W40



RECO EQUIPMENT INC.
 1040 REED DRIVE
 MONROE, OH
 US 45050
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SAMPLE INFORMATION

Sample Number	LH0273226	LH0244814	LH0244672	---
Sample Date	08 Jan 2024	07 Sep 2023	17 May 2023	---
Machine Hours	3977	3424	2962	---
Oil Hours	0	500	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	14.1	13.9	13.6	---
Base Number (BN)	mg KOH/g	6.6	7.3	8.3	---
Oxidation (PA)	%	67	60	61	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	79	74	79	---
Sulfation (PA)	%	63	57	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	7	7	---
Sodium	ppm	2	2	2	---
Potassium	ppm	<1	2	3	---



WEAR METALS

Iron	ppm	5	4	4	---
Copper	ppm	1	0	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	0	<1	---
Chromium	ppm	0	<1	0	---
Molybdenum	ppm	2	0	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	53	61	46	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1600	1733	2242	---
Magnesium	ppm	509	517	542	---
Zinc	ppm	1247	1231	1488	---
Phosphorus	ppm	1051	999	1103	---
Barium	ppm	0	0	0	---
Boron	ppm	81	100	129	---

Diagnosis

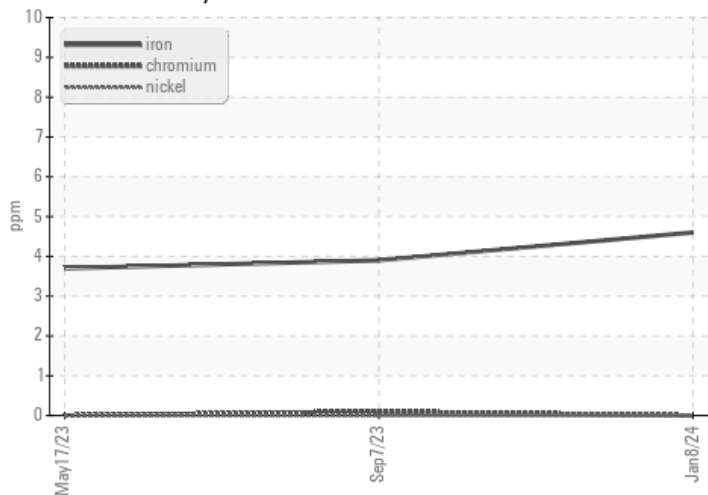
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LEC0075
 Unique No: 10832046
 Signed: Wes Davis
 Report Date: 16 Jan 2024

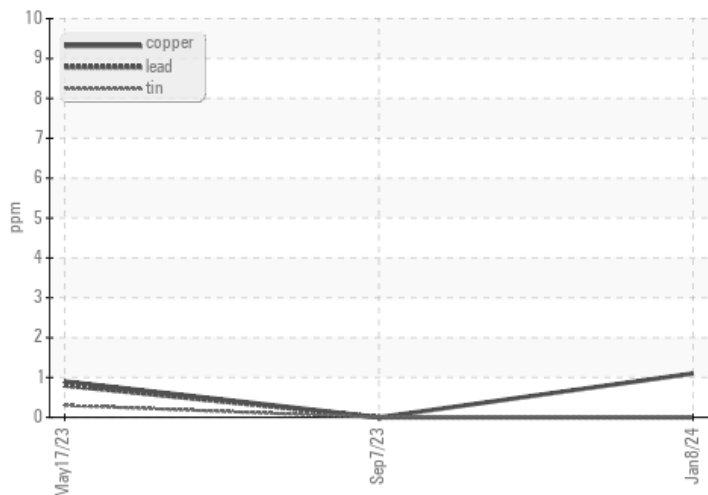


GRAPHS

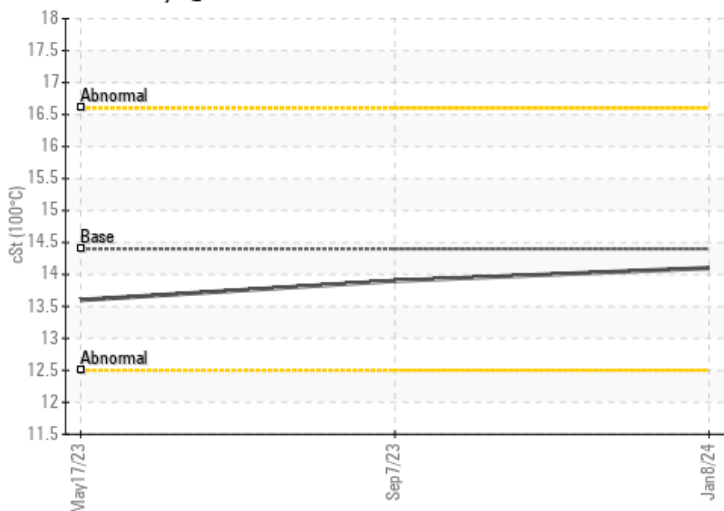
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

