

LIEBHERR

CONSTRUCTION EQUIPMENT



[[CLEVELAND CLIFFS]] LIEBHERR LH60M 119014-1217 - Diesel E

Sample No: LH0267592

Oil Type: DIESEL ENGINE OIL SAE 5W40



FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
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 US 60527
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SAMPLE INFORMATION

Sample Number	LH0267592	---	---	---
Sample Date	06 Nov 2023	---	---	---
Machine Hours	1619	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.5	---	---	---
Base Number (BN)	mg KOH/g	4.2	---	---	---
Oxidation (PA)	%	82	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	85	---	---	---
Sulfation (PA)	%	66	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	11	---	---	---



WEAR METALS

Iron	ppm	9	---	---	---
Copper	ppm	55	---	---	---
Lead	ppm	3	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	13	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1287	---	---	---
Magnesium	ppm	695	---	---	---
Zinc	ppm	808	---	---	---
Phosphorus	ppm	721	---	---	---
Barium	ppm	16	---	---	---
Boron	ppm	34	---	---	---

Diagnosis

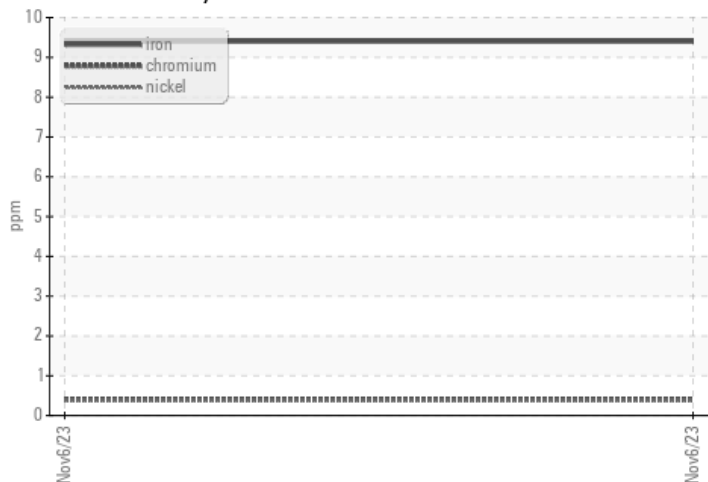
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LEC0033
Unique No: 10752280
Signed: Jonathan Hester
Report Date: 22 Nov 2023

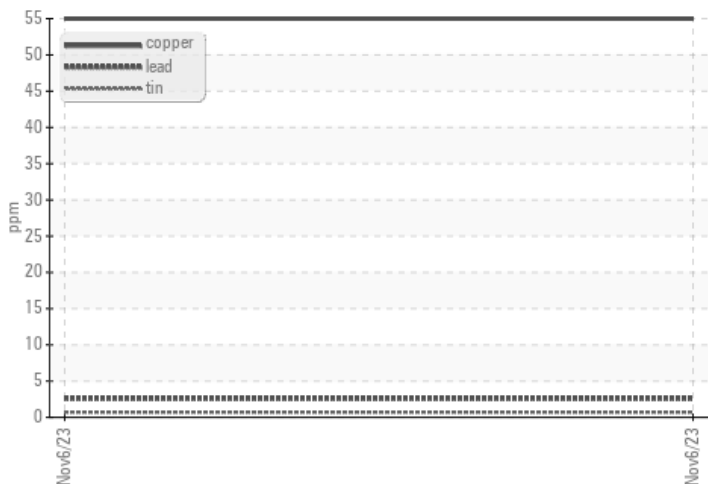


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

