

LIEBHERR

CONSTRUCTION EQUIPMENT



[[BALLARD MARINE]] LIEBHERR LH120C 055127 - Diesel Engine

Sample No: LH0267593
 Oil Type: LIEBHERR 5W40



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

Sample Number	LH0267593	---	---	---
Sample Date	06 Dec 2023	---	---	---
Machine Hours	18708	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	13.4	---	---	---
Base Number (BN)	mg KOH/g	8.2	---	---	---
Oxidation (PA)	%	59	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.2	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	0	---	---	---
Potassium	ppm	3	---	---	---



WEAR METALS

Iron	ppm	7	---	---	---
Copper	ppm	3	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	106	---	---	---
Nickel	ppm	1	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1664	---	---	---
Magnesium	ppm	520	---	---	---
Zinc	ppm	949	---	---	---
Phosphorus	ppm	828	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	271	---	---	---

Diagnosis

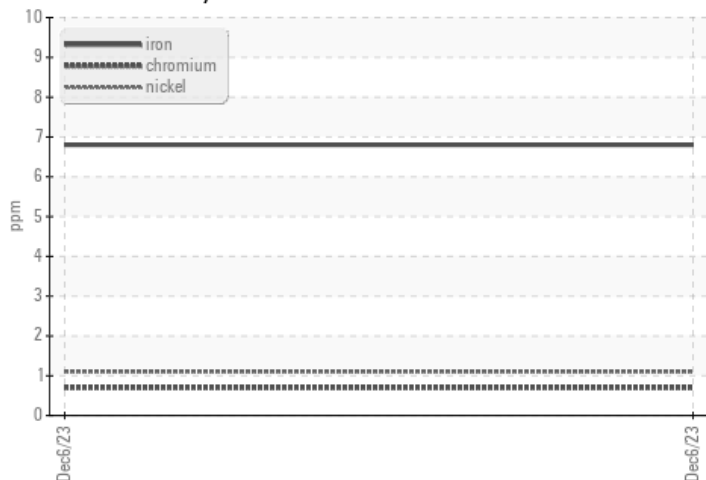
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LEC0033
 Unique No: 10883722
 Signed: Wes Davis
 Report Date: 19 Feb 2024

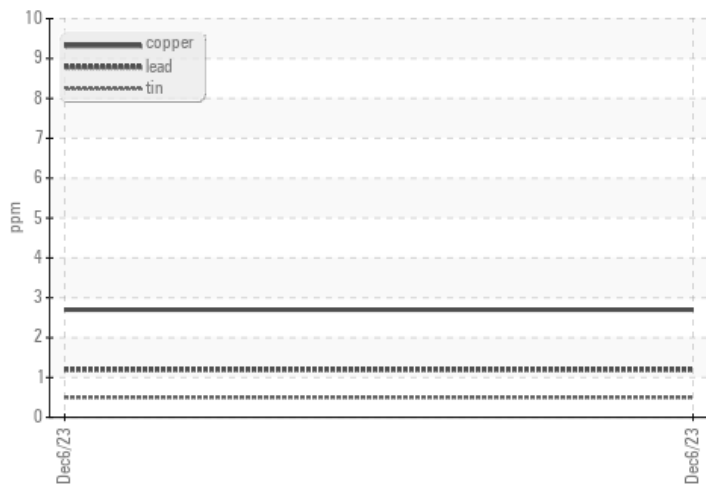


GRAPHS

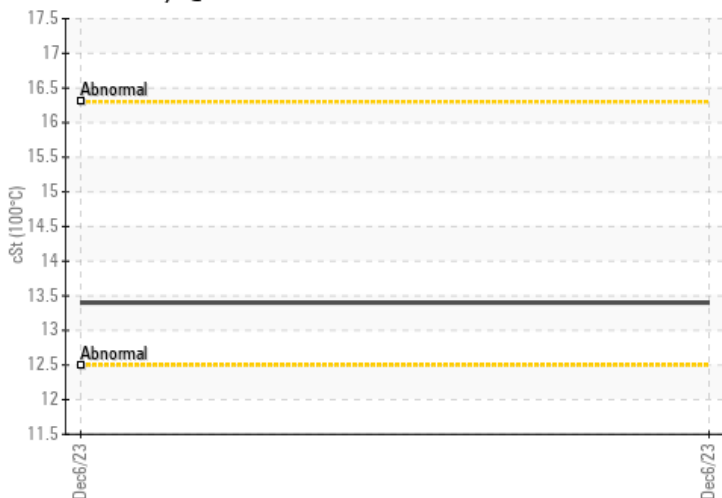
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

