

LIEBHERR

CONSTRUCTION EQUIPMENT



[[NUCOR STEEL]] - Diesel Engine

Sample No: LH0243737

Oil Type: MOBIL 15W40



Sample Information

Sample Number	LH0243737	---	---	---
Sample Date	11 May 2024	---	---	---
Machine Hours	10529	---	---	---
Oil Hours	201	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR EQUIPMENT SOURCE

10119 RESIDENCY ROAD
MANASSAS, VA
US 20110

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Oil Condition

Visc @ 100°C	cSt	14.0	---	---	---
Base Number (BN)	mg KOH/g	9.0	---	---	---
Oxidation (PA)	%	57	---	---	---



Contamination

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	0	---	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the component make and model with 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.



Wear Metals

Iron	ppm	3	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	0	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	19	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

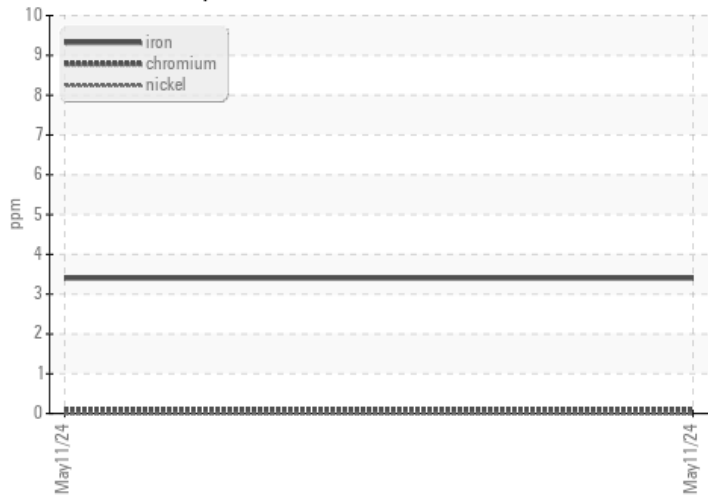
Calcium	ppm	1247	---	---	---
Magnesium	ppm	855	---	---	---
Zinc	ppm	1237	---	---	---
Phosphorus	ppm	1095	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	80	---	---	---

Depot: LIEBHERRVA
Unique No: 11035040
Signed: Wes Davis
Report Date: 21 May 2024

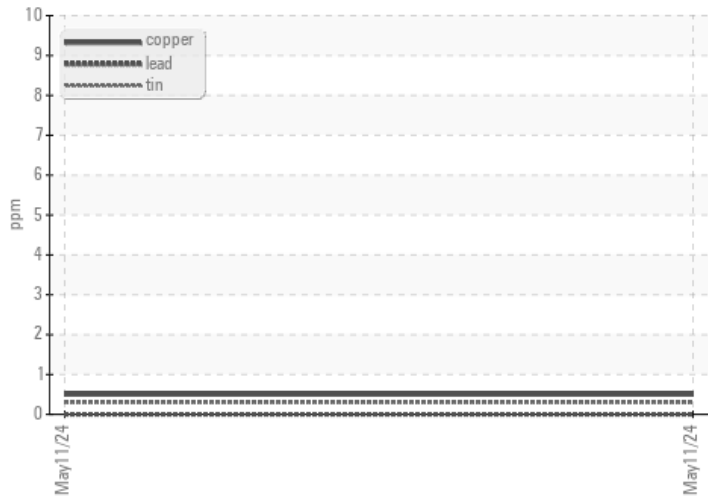


Graphs

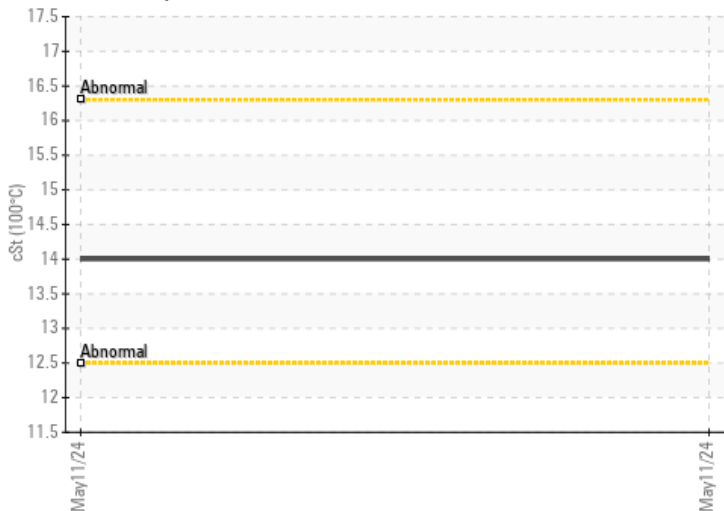
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

