

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R922 056517-1486 - Diesel Engine

Sample No: LH0229680

Oil Type: LIEBHERR MOTOROIL 10W-40 LOW ASH



M&F CONCRETE PRODUCTS CO
4002 CATLETT RD
CATLETT, VA
US 20119
Contact: Service Manager

T:
F:



Sample Information

Sample Number	LH0229680	---	---	---
Sample Date	30 Mar 2024	---	---	---
Machine Hours	2025	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 100°C	cSt	13.1	---	---	---
Base Number (BN)	mg KOH/g	7.6	---	---	---
Oxidation (PA)	%	69	---	---	---

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.



Contamination

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	74	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	18	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	1	---	---	---



Wear Metals

Iron	ppm	17	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	47	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

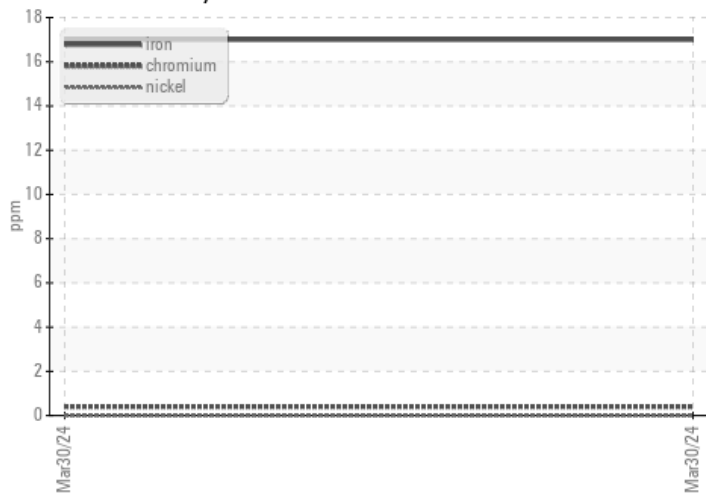
Calcium	ppm	1375	---	---	---
Magnesium	ppm	993	---	---	---
Zinc	ppm	1331	---	---	---
Phosphorus	ppm	1060	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	28	---	---	---

Depot: MECCAT
Unique No: 11003131
Signed: Don Baldrige
Report Date: 30 Apr 2024

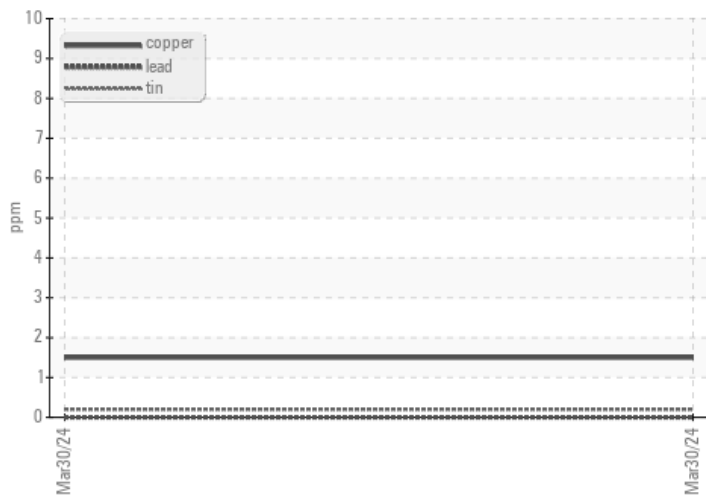


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

