

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 050217-1464 - Diesel Engine

Sample No: LH0258271

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0258271	LH0174215	LHMC144214	---
Sample Date	12 Nov 2023	04 Dec 2020	01 Feb 2019	---
Machine Hours	5251	1796	527	---
Oil Hours	0	1000	527	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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



OIL CONDITION

Visc @ 100°C	cSt	13.2	11.9	12.27	---
Base Number (BN)	mg KOH/g	10.7	---	---	---
Oxidation (PA)	%	59	75	184	---

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.2	0.1	---
Nitration (PA)	%	93	106	78	---
Sulfation (PA)	%	50	59	102	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	14	9	17	---
Sodium	ppm	<1	3	4	---
Potassium	ppm	4	1	13	---

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.



WEAR METALS

Iron	ppm	43	18	11	---
Copper	ppm	46	110	149	---
Lead	ppm	0	<1	3	---
Tin	ppm	0	1	0	---
Aluminum	ppm	6	1	2	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	7	8	46	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	1	---
Manganese	ppm	0	<1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

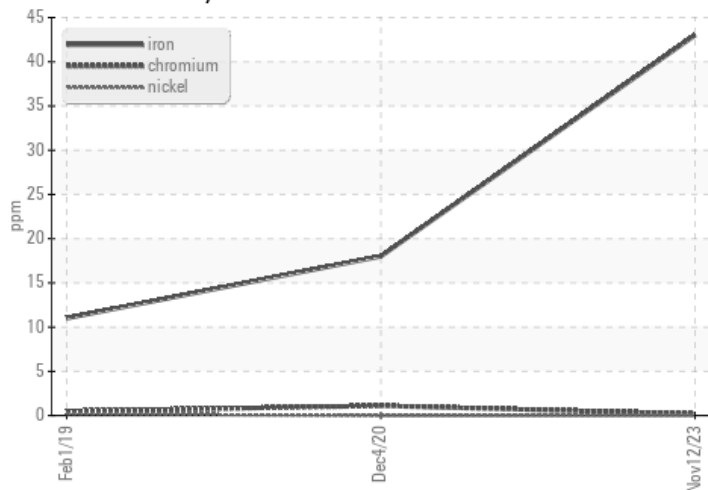
Calcium	ppm	2636	4341	1327	---
Magnesium	ppm	308	161	952	---
Zinc	ppm	1019	1283	859	---
Phosphorus	ppm	894	1057	717	---
Barium	ppm	3	6	43	---
Boron	ppm	195	216	90	---

Depot: MECCAT
Unique No: 10778274
Signed: Wes Davis
Report Date: 09 Dec 2023

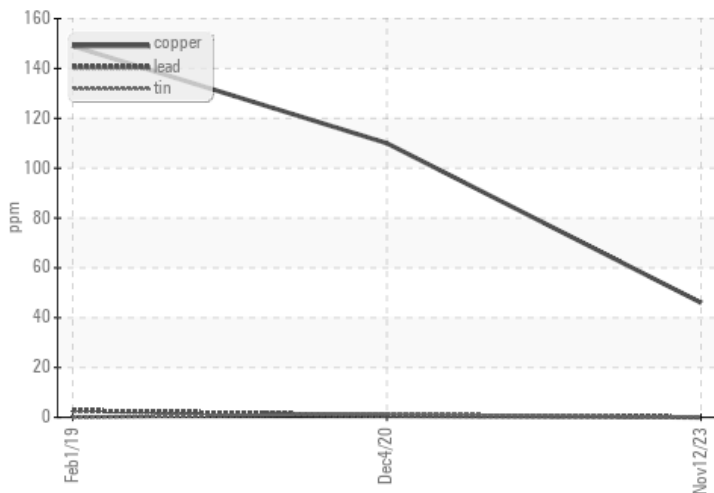


GRAPHS

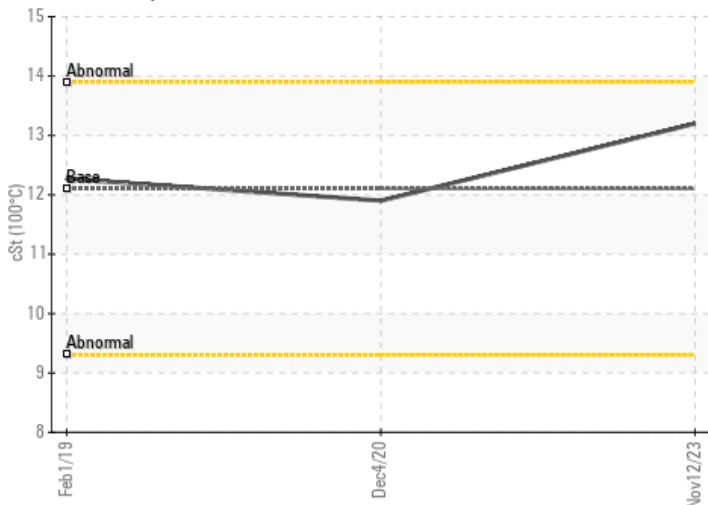
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

