

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 1484-50098 - Diesel Engine

Sample No: LH0243822

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



SAMPLE INFORMATION

Sample Number	LH0243822	LHMC105022	LHMC105029	LHMC105018
Sample Date	26 Oct 2023	04 May 2021	15 Oct 2020	01 Sep 2020
Machine Hours	12597	5998	5029	4258
Oil Hours	662	1942	973	250
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STARK PAVING

12845 BURLEIGH ROAD
BROOKFIELD, WI
US 53005

Contact: DANIEL MIGAAZ

danm@starkcorp.us

T: (414)507-5987

F:



OIL CONDITION

Visc @ 100°C	cSt	11.9	12.0	12.0	11.9
Base Number (BN)	mg KOH/g	6.0	---	---	---
Oxidation (PA)	%	64	101	90	78



CONTAMINATION

Soot %	%	0.1	0.2	0.2	0.1
Nitration (PA)	%	78	113	98	77
Sulfation (PA)	%	55	72	67	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	4	4	6
Sodium	ppm	2	2	<1	2
Potassium	ppm	4	3	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	7	20	11	6
Copper	ppm	1	9	7	5
Lead	ppm	<1	15	4	2
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	0	<1	<1
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1271	2447	2741	2613
Magnesium	ppm	675	38	43	45
Zinc	ppm	817	808	850	816
Phosphorus	ppm	694	673	739	725
Barium	ppm	0	<1	0	0
Boron	ppm	60	13	10	10

Depot: STABROWI

Unique No: 10739845

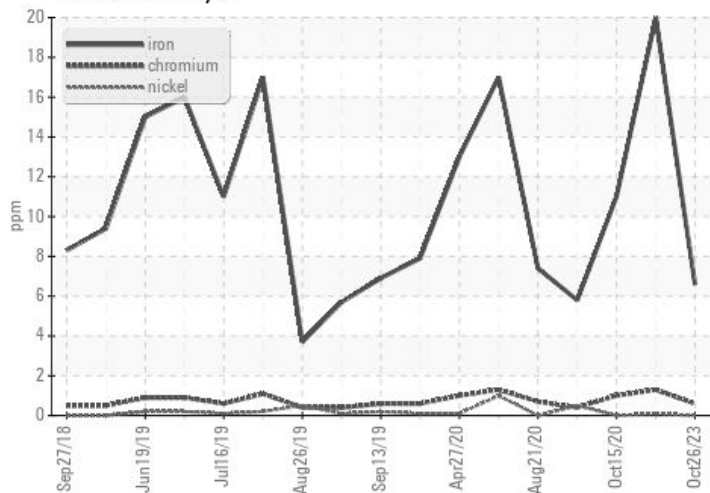
Signed: Wes Davis

Report Date: 14 Nov 2023

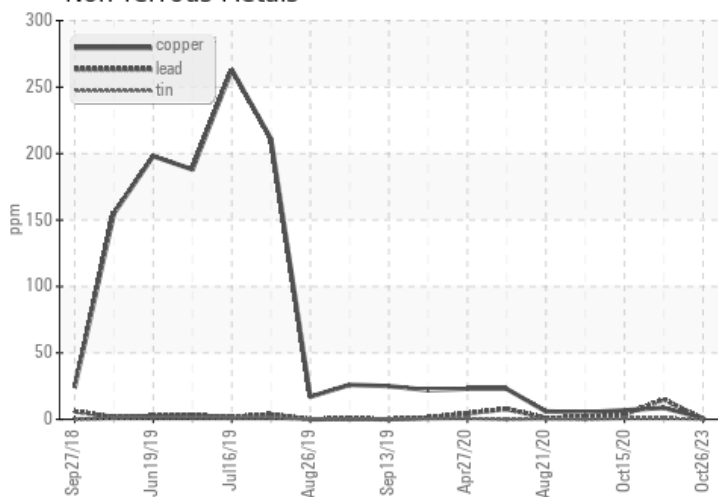


GRAPHS

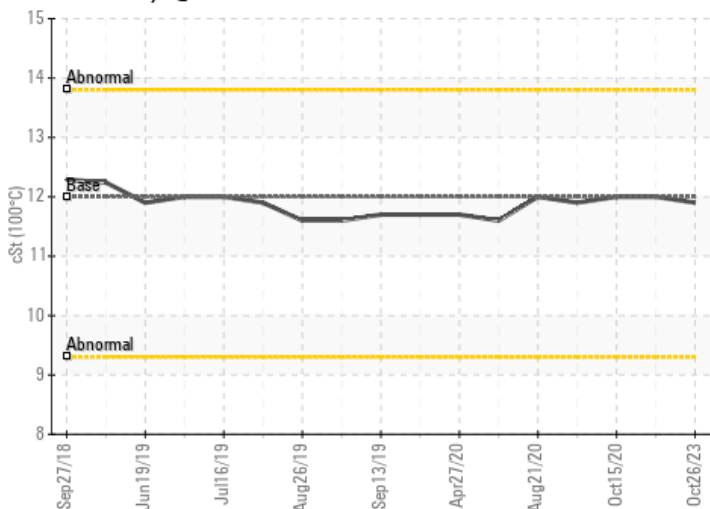
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

