

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L550 1756-58839 - Diesel Engine

Sample No: LHMC160615

Oil Type: LIEBHERR MOTOROIL 5W30



#### SAMPLE INFORMATION

Sample Number	LHMC160615	---	---	---
Sample Date	19 Jul 2023	---	---	---
Machine Hours	6327	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

#### DREW TRANSPORT

2648 WEST 50TH STREET

CHICAGO, IL

US 60632

Contact: SERVICE MANAGER



#### OIL CONDITION

Visc @ 100°C	cSt	6.3	---	---	---
Base Number (BN)	mg KOH/g	11.0	---	---	---
Oxidation (PA)	%	62	---	---	---

T: (773)476-9472

F:



#### CONTAMINATION

Water	%	1.03	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	108	---	---	---
Sulfation (PA)	%	46	---	---	---
Glycol	%	0.0	---	---	---
Fuel	%	1.5	---	---	---
Silicon	ppm	19	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	10	---	---	---

#### Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: one of two samples received with same ID and sampling date. All component wear rates are normal. Fuel content negligible. There is a high concentration of water present in the oil. Test for glycol is negative. Water present in the oil is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



#### WEAR METALS

Iron	ppm	8	---	---	---
Copper	ppm	4	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	5	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	72	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



#### ADDITIVES

Calcium	ppm	2349	---	---	---
Magnesium	ppm	182	---	---	---
Zinc	ppm	1233	---	---	---
Phosphorus	ppm	1058	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	66	---	---	---

Depot: DRECHI

Unique No: 10565428

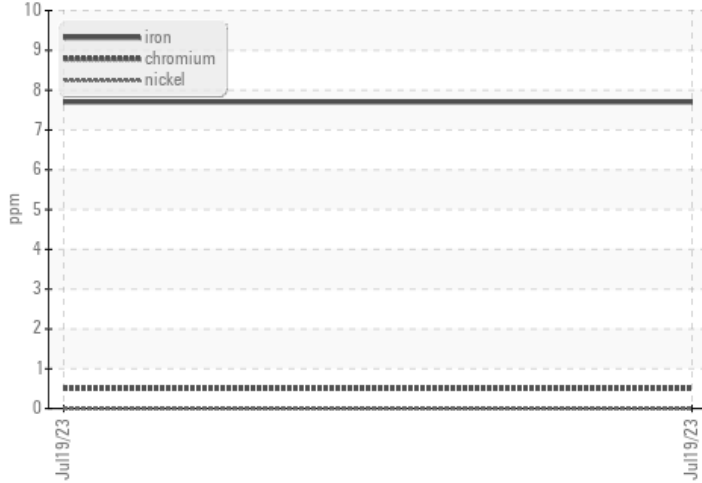
Signed: Doug Bogart

Report Date: 26 Jul 2023

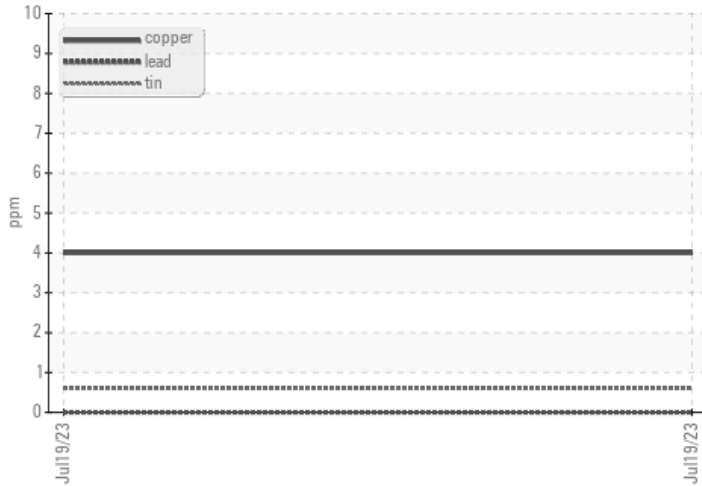


### GRAPHS

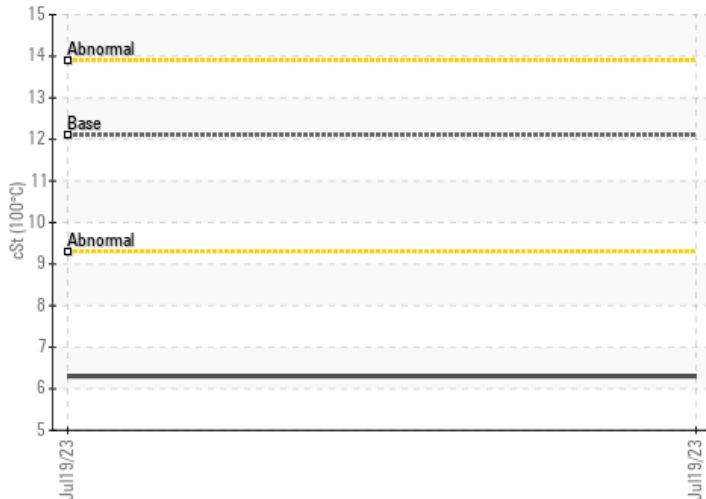
Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 100°C



Base Number

