

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L556 1826-66703 - Diesel Engine

Sample No: LH0243713

Oil Type: DIESEL ENGINE OIL SAE 5W40



#### SAMPLE INFORMATION

Sample Number	LH0243713	LH0244233	LHMC119092	LH0231021
Sample Date	15 Dec 2023	02 Jun 2023	31 Mar 2023	30 Sep 2022
Machine Hours	7039	5209	0	2442
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**ALTER TRADING**  
201 WHEELER AVE  
SOUTH BELOIT, IL  
US 61080  
Contact: Service Manager



#### OIL CONDITION

Visc @ 100°C	cSt	13.4	13.2	13.3	12.9
Base Number (BN)	mg KOH/g	6.4	6.6	7.6	6.6
Oxidation (PA)	%	67	67	60	94

T:  
F:

#### 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	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	75	70	72	89
Sulfation (PA)	%	59	56	52	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	8	8	10
Sodium	ppm	4	1	<1	3
Potassium	ppm	5	3	1	2



#### WEAR METALS

Iron	ppm	6	5	5	11
Copper	ppm	3	2	2	52
Lead	ppm	0	<1	0	3
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	0	0	2
Chromium	ppm	<1	<1	0	1
Molybdenum	ppm	5	22	32	13
Nickel	ppm	0	<1	0	<1
Titanium	ppm	83	59	50	45
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	<1	0	2



#### ADDITIVES

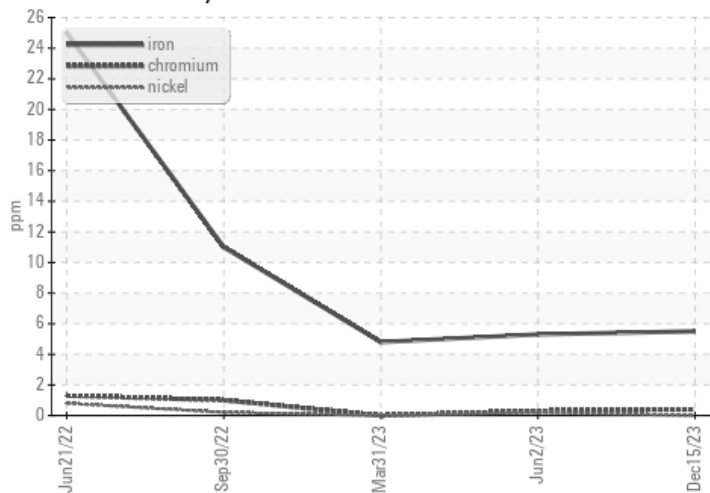
Calcium	ppm	1302	1236	1156	1379
Magnesium	ppm	706	666	775	690
Zinc	ppm	1189	1101	1173	1037
Phosphorus	ppm	975	921	887	872
Barium	ppm	0	2	0	0
Boron	ppm	69	62	55	43

**Depot:** ALTSOU  
**Unique No:** 10808764  
**Signed:** Don Baldrige  
**Report Date:** 02 Jan 2024

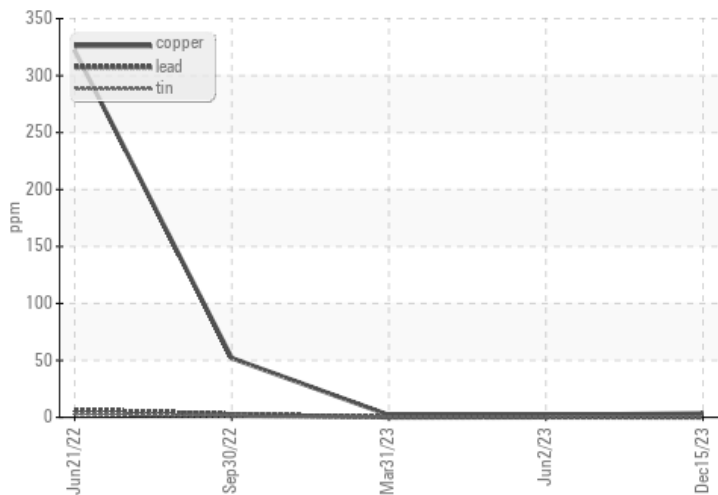


### GRAPHS

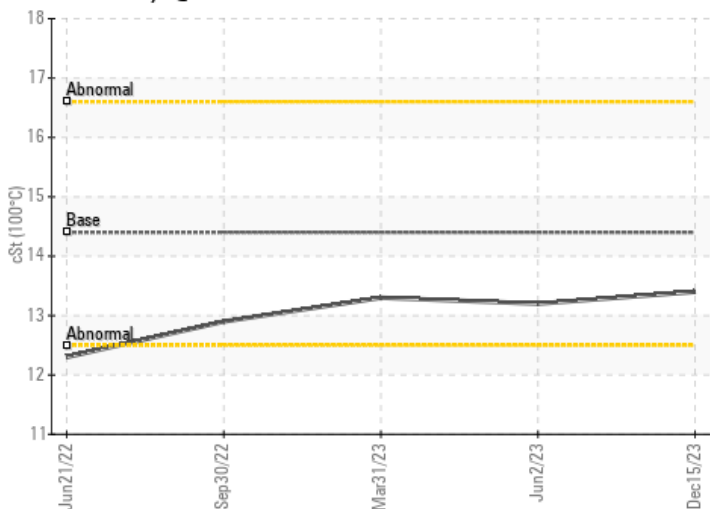
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

