

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[KIMMER SCRAP IRON]] LIEBHERR LH50 145582-1216 - Diesel

Sample No: LH0273656

Oil Type: DIESEL ENGINE OIL SAE 5W30



#### Sample Information

Sample Number	LH0273656	LH0272942	LH0268523	LH0243269
Sample Date	06 Jun 2024	20 Nov 2023	14 Sep 2023	15 Jun 2023
Machine Hours	3371	2062	1633	1005
Oil Hours	1000	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

**RECO EQUIPMENT INC**  
 10461 GRAND RIVER RD  
 BRIGHTON, MI  
 US 48116  
 Contact: MATT VISEL  
 MVISEL@RECOEQUIP.COM  
 T: (810)299-1731  
 F:



#### Oil Condition

Visc @ 100°C	cSt	12.0	13.3	12.3	12.4
Base Number (BN)	mg KOH/g	8.2	1.6	2.7	5.8
Oxidation (PA)	%	99	222	198	186



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.1	0.1
Nitration (PA)	%	143	159	128	112
Sulfation (PA)	%	65	107	102	100
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	<1.0	1.3	<1.0
Silicon	ppm	8	10	9	7
Sodium	ppm	3	3	3	2
Potassium	ppm	4	6	4	3



#### Wear Metals

Iron	ppm	15	23	19	14
Copper	ppm	19	162	160	153
Lead	ppm	1	7	7	4
Tin	ppm	1	2	2	1
Aluminum	ppm	3	4	5	3
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	4	32	33	34
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	2	1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	3733	1815	1839	1761
Magnesium	ppm	109	640	706	694
Zinc	ppm	1222	1039	1060	1025
Phosphorus	ppm	1050	845	833	818
Barium	ppm	2	29	29	23
Boron	ppm	169	85	81	116

#### Diagnosis

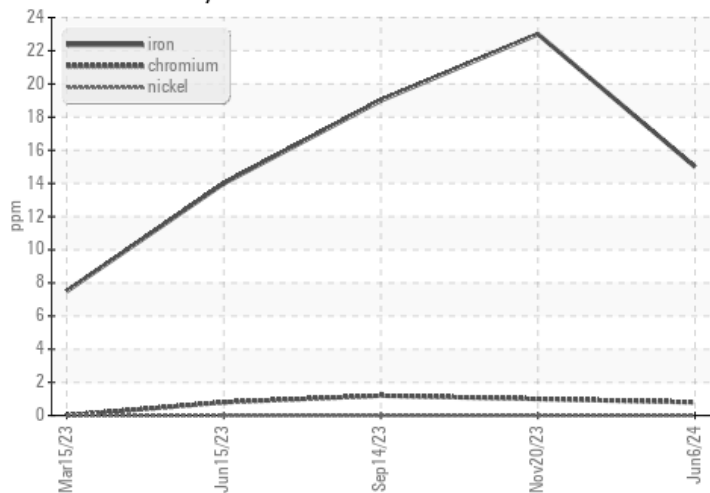
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** RECBRILH  
**Unique No:** 11087308  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2024

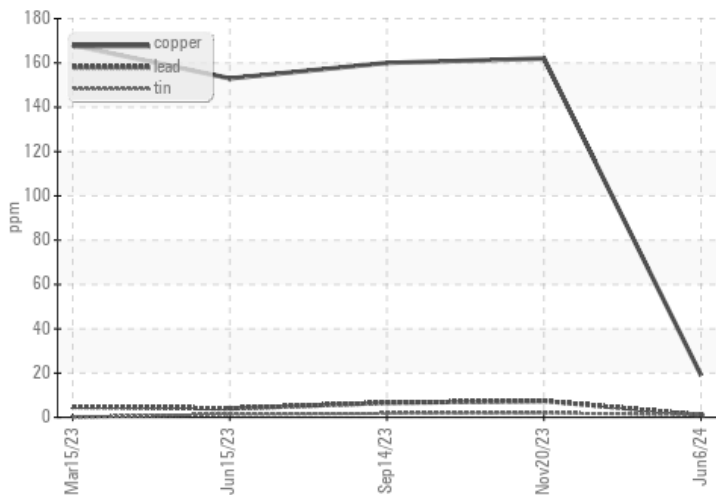


### Graphs

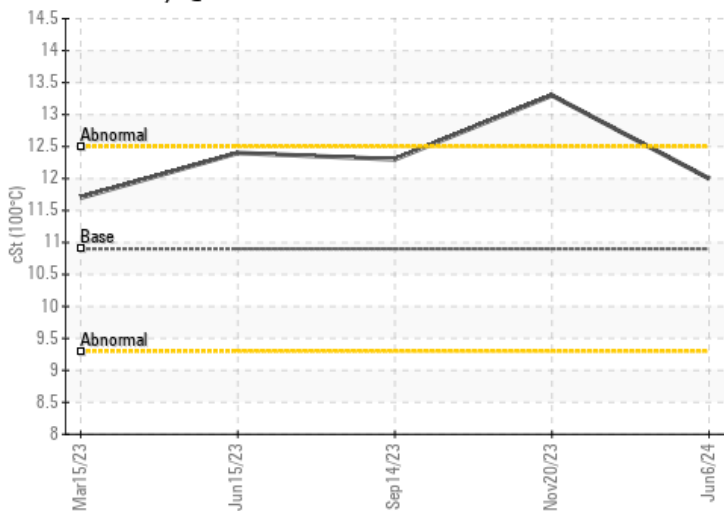
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

