

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[GREEN METALS INC]] LIEBHERR A934BHD 023742-957 - Diesel

Sample No: LH0272332  
 Oil Type: DIESEL ENGINE OIL SAE 15W40



**RECO EQUIPMENT INC**  
 8075 PRODUCTION DRIVE  
 FLORENCE, KY  
 US 41042  
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 F: (859)727-7974



### Sample Information

Sample Number	LH0272332	LH0229969	LH0166143	LHMC142177
Sample Date	16 May 2024	15 Jul 2022	25 Aug 2020	15 Nov 2018
Machine Hours	12050	10051	8359	6975
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



### Oil Condition

Visc @ 100°C	cSt	12.7	14.1	15.9	16.12
Base Number (BN)	mg KOH/g	8.3	10.6	---	---
Oxidation (PA)	%	85	87	108	109



### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.7	0.6	0.6
Nitration (PA)	%	90	95	106	108
Sulfation (PA)	%	63	71	80	81
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	0	3	3	4
Sodium	ppm	12	3	6	10
Potassium	ppm	2	0	10	6



### Wear Metals

Iron	ppm	44	41	37	32
Copper	ppm	4	2	5	52
Lead	ppm	5	8	15	13
Tin	ppm	0	<1	1	0
Aluminum	ppm	3	2	2	2
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	51	65	6	8
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



### Additives

Calcium	ppm	1538	2253	2898	2705
Magnesium	ppm	712	441	57	125
Zinc	ppm	1274	1540	1312	1406
Phosphorus	ppm	1082	1225	1164	1146
Barium	ppm	<1	<1	0	0
Boron	ppm	0	17	101	75

### Diagnosis

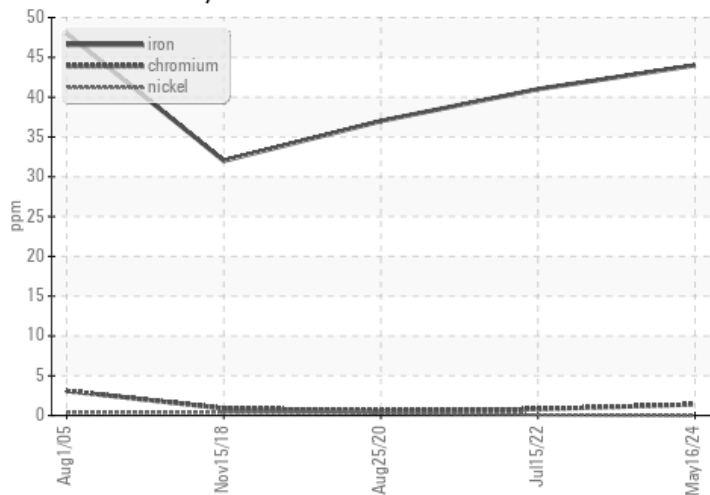
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.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

Depot: LEC0082  
 Unique No: 11061046  
 Signed: Wes Davis  
 Report Date: 05 Jun 2024

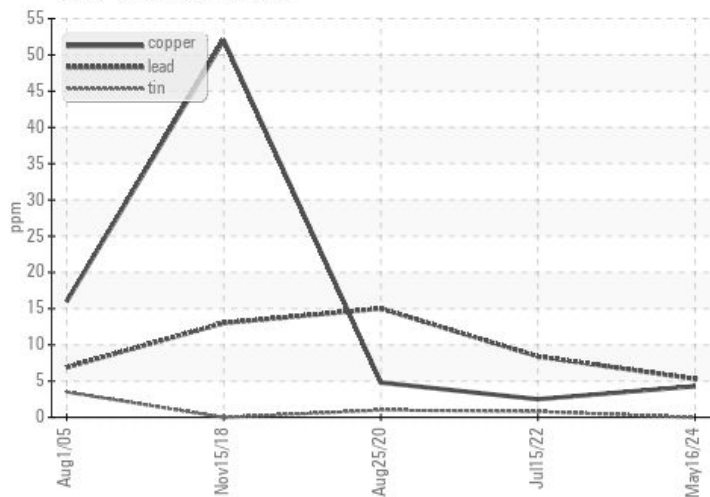


### Graphs

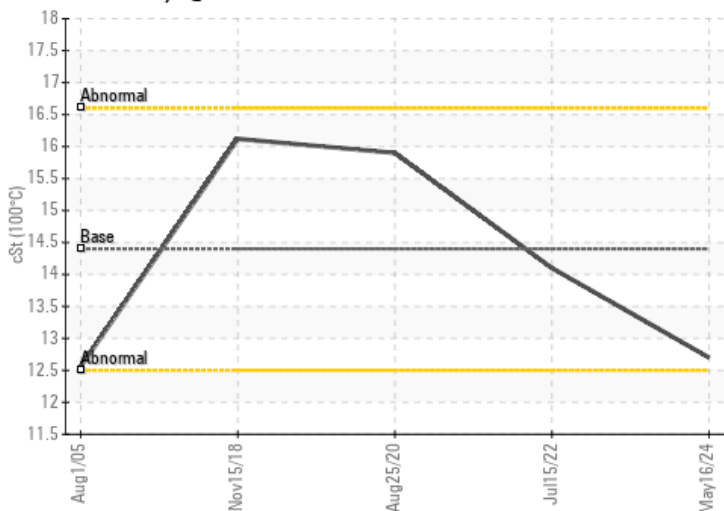
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

