

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1464-54668 - Diesel Engine

Sample No: LH0258859

Oil Type: DIESEL ENGINE OIL SAE 5W40



#### Sample Information

Sample Number	LH0258859	LH0267662	LH0254402	LH0220318
Sample Date	27 Apr 2024	28 Oct 2023	22 Apr 2023	15 Oct 2022
Machine Hours	5964	4969	3776	2725
Oil Hours	5964	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### OZINGA BROS INC

19001 OLD LAGRANDE RD, SUITE 300  
MOKENA, IL  
US 60448  
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F:



#### Oil Condition

Visc @ 100°C	cSt	13.8	13.3	13.6	12.9
Base Number (BN)	mg KOH/g	6.8	6.6	6.1	8.0
Oxidation (PA)	%	63	65	50	73



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	75	74	65	73
Sulfation (PA)	%	55	66	45	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	6
Sodium	ppm	1	0	2	2
Potassium	ppm	2	4	2	2



#### Wear Metals

Iron	ppm	0	4	3	3
Copper	ppm	0	2	<1	1
Lead	ppm	0	1	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	1	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	6	12	9	31
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	1241	1284	1466	1332
Magnesium	ppm	678	606	612	568
Zinc	ppm	801	809	876	1022
Phosphorus	ppm	697	703	734	830
Barium	ppm	0	0	0	0
Boron	ppm	91	64	85	109

#### Diagnosis

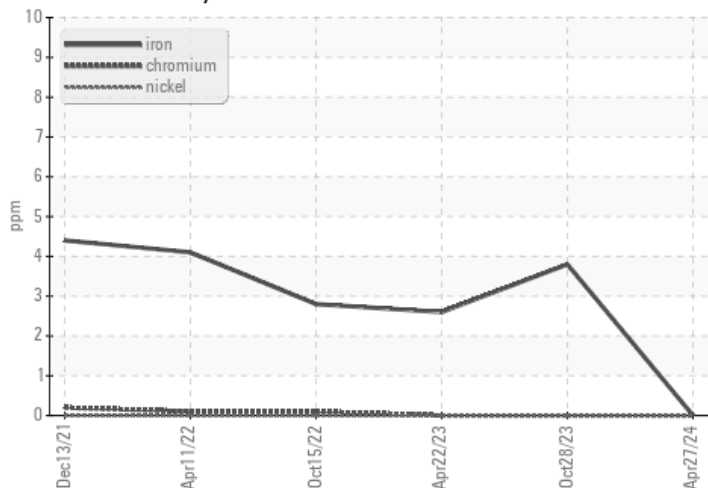
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.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

Depot: OZIMOKLH  
Unique No: 11060679  
Signed: Wes Davis  
Report Date: 04 Jun 2024

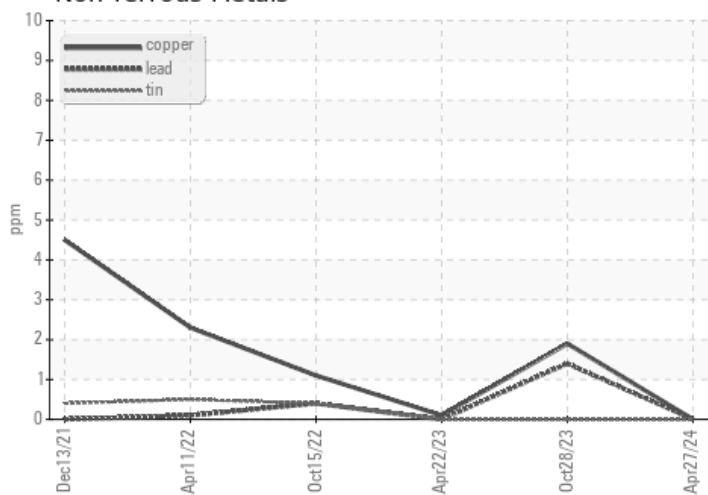


### Graphs

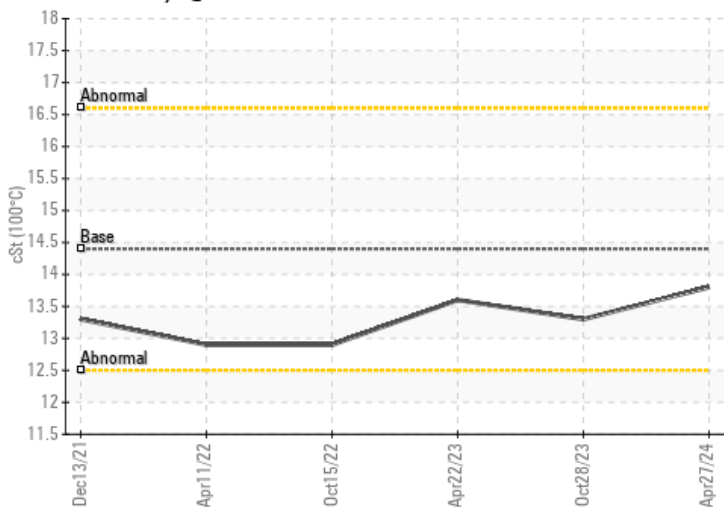
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

