

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[MICHAELS]] LIEBHERR R956 056678-1728 - Diesel Engine

Sample No: LH0254455

Oil Type: DIESEL ENGINE OIL SAE 5W40



**FINKBINER EQUIPMENT CO.**  
 15 W 400 N FRONTAGE RD  
 BURR RIDGE, IL  
 US 60527  
 Contact: TROY MILLER  
 tmiller@finkbiner.com  
 T: (630)654-3700  
 F: (630)654-3792



#### SAMPLE INFORMATION

Sample Number	LH0254455	---	---	---
Sample Date	03 Aug 2023	---	---	---
Machine Hours	804	---	---	---
Oil Hours	804	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	11.7	---	---	---
Base Number (BN)	mg KOH/g	5.4	---	---	---
Oxidation (PA)	%	185	---	---	---



#### CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	103	---	---	---
Sulfation (PA)	%	100	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.2	---	---	---
Silicon	ppm	11	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	2	---	---	---



#### WEAR METALS

Iron	ppm	13	---	---	---
Copper	ppm	35	---	---	---
Lead	ppm	4	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	42	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



#### ADDITIVES

Calcium	ppm	1854	---	---	---
Magnesium	ppm	845	---	---	---
Zinc	ppm	942	---	---	---
Phosphorus	ppm	759	---	---	---
Barium	ppm	5	---	---	---
Boron	ppm	108	---	---	---

#### Diagnosis

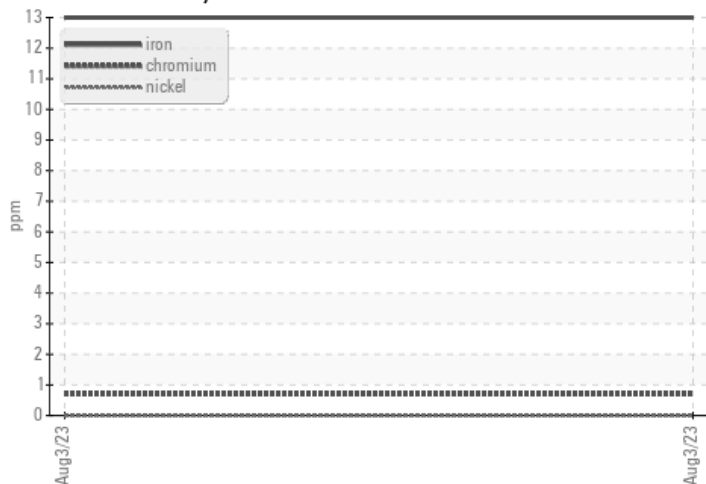
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: LEC0033  
 Unique No: 10616711  
 Signed: Jonathan Hester  
 Report Date: 25 Aug 2023

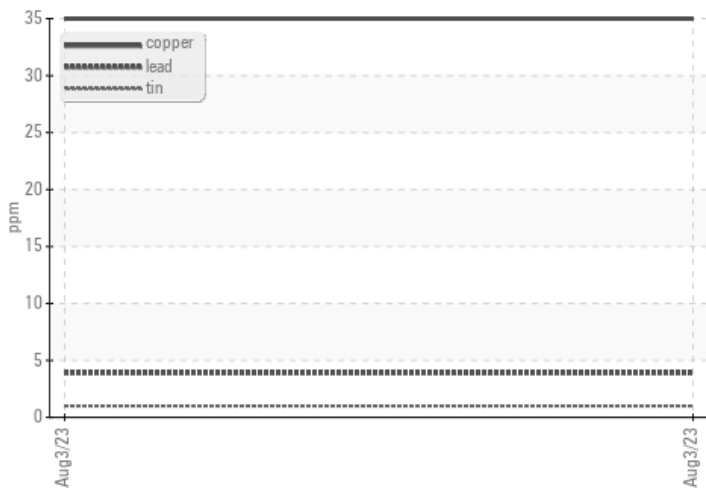


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 100°C



#### Base Number

