

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[S20230323035857]] LIEBHERR TA230 7369 - Diesel Engine

Sample No: LH06059095  
 Oil Type: DIESEL ENGINE OIL SAE 15W40



**HEAVY MACHINES INC.**  
 3930 EAST RAINES RD  
 MEMPHIS, TN  
 US 38118  
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### SAMPLE INFORMATION

Sample Number	LH06059095	---	---	---
Sample Date	29 Dec 2023	---	---	---
Machine Hours	2227	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



### OIL CONDITION

Visc @ 100°C	cSt	13.7	---	---	---
Base Number (BN)	mg KOH/g	8.1	---	---	---
Oxidation (PA)	%	66	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	59	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	7	---	---	---
Sodium	ppm	<1	---	---	---
Potassium	ppm	2	---	---	---



### WEAR METALS

Iron	ppm	<1	---	---	---
Copper	ppm	10	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	4	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	72	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	1593	---	---	---
Magnesium	ppm	466	---	---	---
Zinc	ppm	1219	---	---	---
Phosphorus	ppm	968	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	122	---	---	---

### 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.

Depot: LEC0051  
 Unique No: 10830477  
 Signed: Wes Davis  
 Report Date: 12 Jan 2024



### GRAPHS

