

LIEBHERR

CONSTRUCTION EQUIPMENT



[[S20230323032319]] LIEBHERR TA230 7369 - Rear Final Dr

Sample No: LH06059584
 Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH06059584	---	---	---
Sample Date	29 Dec 2023	---	---	---
Machine Hours	2227	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

HEAVY MACHINES INC.
 3930 EAST RAINES RD
 MEMPHIS, TN
 US 38118
 Contact: J. DAVIS
 JDAVIS@HEAVY.LLC.COM
 T:
 F: (901)260-2245



OIL CONDITION

Visc @ 40°C	cSt	62.5	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	16	---	---	---
Sodium	ppm	17	---	---	---
Potassium	ppm	2	---	---	---



WEAR METALS

Iron	ppm	159	---	---	---
Copper	ppm	74	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	4	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	8	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	30	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	3629	---	---	---
Magnesium	ppm	9	---	---	---
Zinc	ppm	1549	---	---	---
Phosphorus	ppm	1243	---	---	---
Barium	ppm	4	---	---	---
Boron	ppm	133	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: LEC0051
 Unique No: 10830966
 Signed: Jonathan Hester
 Report Date: 16 Jan 2024



GRAPHS

