

LIEBHERR

CONSTRUCTION EQUIPMENT



[[S20230323024150]] LIEBHERR TA230 7369 - Front Rear Fin

Sample No: LH06059585

Oil Type: GEAR OIL SAE 80W90



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



SAMPLE INFORMATION

Sample Number	LH06059585	---	---	---
Sample Date	29 Dec 2023	---	---	---
Machine Hours	2227	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	62.7	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	11	---	---	---
Sodium	ppm	15	---	---	---
Potassium	ppm	2	---	---	---



WEAR METALS

Iron	ppm	92	---	---	---
Copper	ppm	62	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	6	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	17	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	3552	---	---	---
Magnesium	ppm	8	---	---	---
Zinc	ppm	1511	---	---	---
Phosphorus	ppm	1240	---	---	---
Barium	ppm	4	---	---	---
Boron	ppm	131	---	---	---

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: 10830967
 Signed: Jonathan Hester
 Report Date: 16 Jan 2024



GRAPHS

