CONSTRUCTION EQUIPMENT

[[\$20230514033953]] LIEBHERR TA 230 4162 - Rear Axle

Sample No: LH06059588

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

LH06059588 10 Nov 2023

3503

Changed ABNORMAL

0

Sample Number	
Sample Date	
Machine Hours	
Oil Hours	
Oil Changed	
Sample Status	

OIL CONDITION

Visc @ 40°C

- 1

Barium

Boron

cSt 62.7

Water	%	NEG				
Silicon	ppm	9				
Sodium	ppm	0 12				
Potassium	ppm	02				

WEAR	METALS			
Iron	ppm	0 112	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	01	 	
Tin	ppm	2	 	
Aluminum	ppm	02	 	
Chromium	ppm	01	 	
Molybdenum	ppm	○ <1	 	
Nickel	ppm	3	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	0 17	 	
Vanadium	ppm	0	 	

0 **ADDITIVES** Calcium ppm 0 3937 Magnesium 011 ppm Zinc 0 1729 ppm Phosphorus ppm 0 1386

03

0 136

ppm

ppm





HEAVY MACHINES INC. 3930 EAST RAINES RD MEMPHIS, TN US 38118

Contact: J. DAVIS JDAVIS@HEAVY.LLC.COM T: F: (901)260-2245

Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. 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:	10830970
Signed:	Jonathan Hester
Report Date:	16 Jan 2024

Contact/Location: J. DAVIS - LEC0051





GRAPHS

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Contact/Location: J. DAVIS - LEC0051