CONSTRUCTION EQUIPMENT

[[\$20230514031131]] LIEBHERR TA230 4162 - Front Rear Axia

Sample No: LH06059587

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

LH06059587

10 Nov 2023 3503

Changed ABNORMAL

0

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

OIL CONDITION

Visc @ 40°C

cSt 0 62.8

Water	%	NEG					
Silicon	ppm	0 10					
Sodium	ppm	0 13					
Potassium	ppm	0 2					

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👾 WEA	R METALS			
Iron	000	0 181		
Iron	ppm	Ũ	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	01	 	
Tin	ppm	3	 	
Aluminum	ppm	02	 	
Chromium	ppm	02	 	
Molybdenum	ppm	○ <1	 	
Nickel	ppm	0 11	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	0 27	 	
Vanadium	ppm	0	 	

0 **ADDITIVES** 3572 Calcium ppm Magnesium 0 10 ppm Zinc 0 1500 ppm Phosphorus ppm 0 1260 Barium 04 ppm Boron ppm 0 126





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:	10830969
Signed:	Jonathan Hester
Report Date:	16 Jan 2024

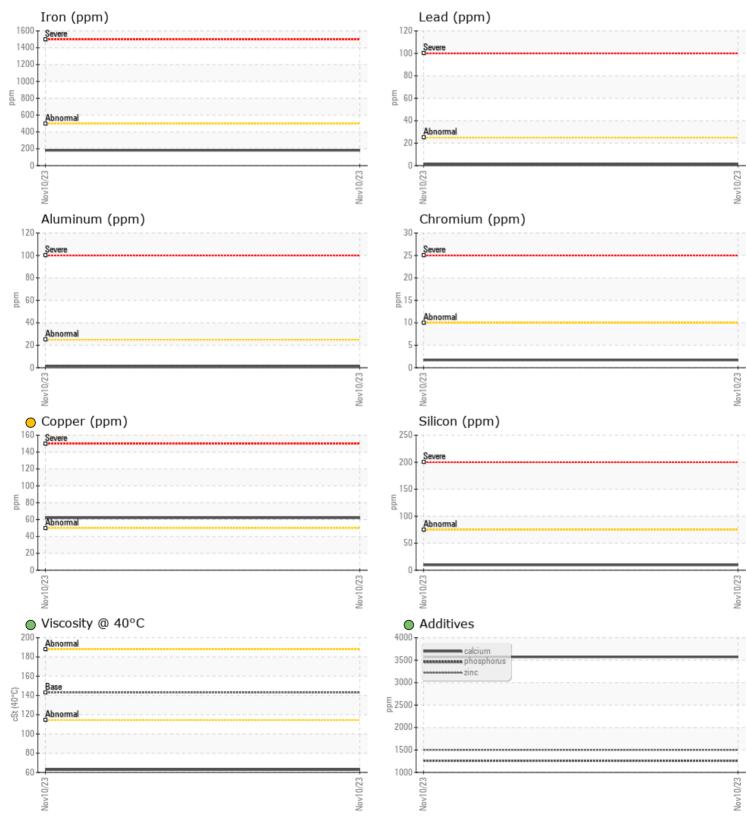
Contact/Location: J. DAVIS - LEC0051





GRAPHS

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Report Id: LEC0051 [WUSCAR] 06059587 (Generated: 01/16/2024 10:09:42) Rev: 1

Contact/Location: J. DAVIS - LEC0051