CONSTRUCTION EQUIPMENT

LIEBHERR LH80C 097852-1529 - Swing Drive

Sample No: LH0257921

Oil Type:

:	TEXACO HAVOLINE GEAR OIL 80W90

Samp	le Inform	ation			
Sample Number		LH0257921	LH0258434	LH0254280	LH0254279
Sample Date		18 Jun 2024	17 Apr 2024	20 Jul 2023	20 Jul 2023
Machine Hours		9188	0	7409	7409
Oil Hours		0	0	0	0
Oil Changed		N/A	Changed	Changed	N/A
Sample Status		ABNORMAL	SEVERE	NORMAL	SEVERE
Oil Co	ndition				
Visc @ 40°C	cSt	0 129	0 147	93.5	0 133.6

Contamination						
Water	%	0.748	NEG	NEG	NEG	
Silicon	ppm	0 5	0 9	03	6	
Sodium	ppm	0 2	2	0	0	
Potassium	ppm	0	0 0	0 1	◯ <1	

Ä					
Weal	Metals				
Iron	ppm	546	1633	30	1796
Copper	ppm	0 107	0 440	2	456
Lead	ppm	○ <1	0	○ <1	04
Tin	ppm	○ <1	5	0	5
Aluminum	ppm	0 🔘	○ <1	○ <1	2
Chromium	ppm	07	21	○ <1	21
Molybdenum	ppm	01	2	○ <1	3
Nickel	ppm	01	5	0	07
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	4	13	<1	13
Vanadium	ppm	0	0	0	<1

0 **Additives** Calcium 0 45 ppm 23 34 33 05 0 20 Magnesium 0 12 23 ppm 0 34 Zinc 0 154 0 57 68 ppm Phosphorus ppm 0 1551 0 1686 0 1105 0 1544 Barium 0 $\bigcirc 0$ ppm $\bigcirc 0$ 0 Boron 0 272 0 200 ppm 0 259 0 310





HEAVY MACHINES INC

7651 THEODORE DAWES RD THEODORE, AL US 36582 Contact: DAVID MIANO dmiano@heavymachinesinc.com T: x: F: x:

Diagnosis

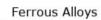
We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot:HEATHEUnique No:11099845Signed:Don BaldridgeReport Date:28 Jun 2024Contact/Location: DAVID MIANO - HEATHE





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Graphs

