CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1203-77107 - Front Differential

Sample No: LH0254740

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90

SAMPLE INFORMATION Sample Number LH0254740 LH0243169 LH0229284 LH0217037 Sample Date 16 Jun 2023 22 Dec 2022 31 May 2022 08 Dec 2021 Machine Hours 18994 17940 16365 15034 **Oil Hours** 0 0 0 0 Oil Changed Changed Changed Changed Changed Sample Status NORMAL NORMAL NORMAL NORMAL **OIL CONDITION** Visc @ 40°C cSt 0 131 0 140 0 133 0 133 CONTAMINATION Silicon ppm 0 ◯ <1 01 ○ <1 Sodium $\bigcirc 0$ ppm ○ <1 $\bigcirc 0$ \bigcirc 1 ◯ <1 03 $\bigcirc 2$ Potassium ppm

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WEAR METALS						
Iron	ppm	02	6	2	03	
Copper	ppm	01	0 4	0 1	2	
Lead	ppm	0 🔘	0	0	0	
Tin	ppm	0 🔘	0	0	0	
Aluminum	ppm	○ <1	◯ <1	0	0	
Chromium	ppm	0 ()	0	0	0	
Molybdenum	ppm	○ <1	0 1	◯ <1	2	
Nickel	ppm	0 🔘	0	◯ <1	0	
Titanium	ppm	0	0	0	<1	
Silver	ppm	0	0	<1	0	
Manganese	ppm	○ <1	◯ <1	◯ <1	0	
Vanadium	ppm	0	0	0	0	

ADDITIVES Calcium 0 41 ppm 070 0 57 0 155 Magnesium 05 0 10 8 0 18 ppm Zinc 0 27 54 0 13 0 17 ppm Phosphorus 0 855 0 780 0774 0 967 ppm Barium ppm 0 0 0 0 Boron ppm 07 $\bigcirc 17$ 0 19 0 48





AMERICAN STATE EQUIPMENT CO.

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Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:	LEC0008		
Unique No:	10535772		
Signed:	Don Baldridge		
Report Date:	30 Jun 2023		

Contact/Location: CHRIS BARTNIK - LEC0008





GRAPHS

Ferrous Alloys

