CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 1216-109299 - Front Left Wheel Hub

Sample No: LH0272563

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90

SAMPLE INFORMATION Sample Number LH0272563 LH0264388 LH0243150 LH0217666 Sample Date 19 Jan 2024 21 Jul 2023 21 Dec 2022 07 Jun 2022 Machine Hours 9018 8127 7018 0 **Oil Hours** 0 0 0 0 Oil Changed Changed Changed Changed Changed Sample Status NORMAL NORMAL NORMAL NORMAL **OIL CONDITION** Visc @ 40°C cSt 0 123 0 138 0 132 0 138 CONTAMINATION

Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	04	03	02	02	
Sodium	ppm	03	03	0	01	
Potassium	ppm	○ <1	0 2	3	0	

WEA WEA	R METALS				
Iron	ppm	0 38	26	0 19	0 18
Copper	ppm	2	03	03	02
Lead	ppm	0	0	0	0
Tin	ppm	○ <1	0	0	◯ <1
Aluminum	ppm	○ <1	0	0 1	○ <1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	◯ <1	0 1	◯ <1
Nickel	ppm	0	0	0	0
Titanium	ppm	○ <1	○ <1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	 <1	◯ <1	◯ <1	◯ <1
Vanadium	ppm	0	<1	0	0

0 **ADDITIVES** Calcium ppm 0 58 0 124 84 077 Magnesium ppm 07 0 10 0 12 013 0 30 0 26 28 Zinc 0 19 ppm 0 837 0 785 0 858 Phosphorus ppm 0 777 Barium 0 ppm $\bigcirc 0$ $\bigcirc 0$ $\bigcirc 0$ 07 Boron 0 44 ppm 0 12 0 19

ALTER METAL 2900 SHERMAN STREET WAUSAU, WI US 54401

Contact: Service Manager

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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:	ALTWAUUS
Unique No:	10846829
Signed:	Sean Felton
Report Date:	26 Jan 2024

Contact/Location: Service Manager - ALTWAUUS









GRAPHS

