

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-130389 - Front Left Wheel Hub

Sample No: LH0217921

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0217921	LH0217909	LH0217897	LH0200598
Sample Date	19 Mar 2024	14 Jun 2023	18 Aug 2022	10 Feb 2022
Machine Hours	3007	1990	997	4749
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	127	144	145	156
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 6	● 12	● 11	● 23
Sodium	ppm	● 7	● 10	● 4	● 5
Potassium	ppm	● 4	● 8	● 2	● 2



WEAR METALS

Iron	ppm	● 142	● 180	● 77	● 143
Copper	ppm	● 13	● 12	● 14	● 18
Lead	ppm	● 0	● 2	● 0	● <1
Tin	ppm	● 0	● 1	● 0	● <1
Aluminum	ppm	● <1	● 3	● 2	● 3
Chromium	ppm	● <1	● <1	● <1	● <1
Molybdenum	ppm	● 0	● <1	● 2	● 5
Nickel	ppm	● <1	● 1	● <1	● <1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	● 2	● 3	● 1	● 2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	● 40	● 59	● 83	● 186
Magnesium	ppm	● 8	● 8	● 3	● 3
Zinc	ppm	● 24	● 33	● 31	● 71
Phosphorus	ppm	● 808	● 848	● 1017	● 1721
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	0	● 2	● 3	● 4

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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: 10955350
 Signed: Wes Davis
 Report Date: 02 Apr 2024



GRAPHS

