

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-130389 - Front Differential

Sample No: LH0217914

Oil Type: GEAR OIL SAE 80W90



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SAMPLE INFORMATION

Sample Number	LH0217914	LH0217902	LH0217890	LH0200601
Sample Date	19 Mar 2024	14 Jun 2023	18 Aug 2022	10 Feb 2022
Machine Hours	3007	1990	997	488
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	122	143	143	185



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	<1	3
Sodium	ppm	2	<1	<1	4
Potassium	ppm	1	3	<1	<1



WEAR METALS

Iron	ppm	6	19	3	6
Copper	ppm	12	8	9	13
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	0	2	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	3	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	36	37	36	5
Magnesium	ppm	9	2	3	0
Zinc	ppm	27	53	23	9
Phosphorus	ppm	810	585	828	1269
Barium	ppm	0	5	0	394
Boron	ppm	0	2	5	2

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: 10955347
 Signed: Wes Davis
 Report Date: 02 Apr 2024



GRAPHS

