

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 132404-1216 - Front Left Wheel Hub

Sample No: LH0209270

Oil Type: GEAR OIL SAE 75W90



HUBERT & FILS

474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9

Contact: Eric Brisebois
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SAMPLE INFORMATION

Sample Number	LH0209270	LH	LH0223409	LH0209282
Sample Date	02 Feb 2024	24 Nov 2023	20 Oct 2023	24 Mar 2023
Machine Hours	12428	11707	11209	8500
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	90.5	101	139	89.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	8	2	2	24
Sodium	ppm	4	8	6	2
Potassium	ppm	11	3	1	<1



WEAR METALS

Iron	ppm	55	42	30	27
Copper	ppm	7	10	15	4
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	145	100	47	13
Magnesium	ppm	<1	<1	<1	0
Zinc	ppm	77	62	22	14
Phosphorus	ppm	1121	1236	1956	1110
Barium	ppm	0	0	0	0
Boron	ppm	136	120	47	146

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: HUBBOI
Unique No: 5750498
Signed: Wes Davis
Report Date: 28 Mar 2024



GRAPHS

