

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 137429 - Front Left Wheel Hub

Sample No: LH0274508

Oil Type: GEAR OIL SAE 75W90



CMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
 NORTH YORK, ON
 CA M9L 1P9
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SAMPLE INFORMATION

Sample Number	LH0274508	LH0247027	LH0251881	LH0247248
Sample Date	20 Aug 2023	11 Jun 2023	23 Feb 2023	02 Dec 2022
Machine Hours	6359	5689	4360	3290
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	95.0	86.1	89.5	94.5
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CONTAMINATION

Silicon	ppm	2	4	4	4
Sodium	ppm	3	3	3	3
Potassium	ppm	<1	<1	<1	1



WEAR METALS

Iron	ppm	18	22	23	20
Copper	ppm	29	28	21	22
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	1	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	136	211	196	156
Magnesium	ppm	2	2	2	2
Zinc	ppm	102	168	143	104
Phosphorus	ppm	1311	1251	1274	1261
Barium	ppm	0	0	0	0
Boron	ppm	285	213	219	233

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: COMWES
Unique No: 5630300
Signed: Wes Davis
Report Date: 21 Aug 2023



GRAPHS

