

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 137429 - Rear Right Wheel Hub

Sample No: LH0274507

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	LH0274507	LH0247029	LH0251879	LH0247370
Sample Date	20 Aug 2023	11 Jun 2023	23 Feb 2023	02 Dec 2022
Machine Hours	6359	5689	4360	0
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	103	103	101	101



CONTAMINATION

Element	Unit	2	2	2	2
Silicon	ppm	2	2	2	2
Sodium	ppm	<1	<1	<1	1
Potassium	ppm	0	0	<1	<1



WEAR METALS

Element	Unit	9	7	8	10
Iron	ppm	9	7	8	10
Copper	ppm	15	8	6	12
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	Unit	17	13	15	24
Calcium	ppm	17	13	15	24
Magnesium	ppm	2	1	2	2
Zinc	ppm	17	13	14	14
Phosphorus	ppm	1324	1409	1372	1347
Barium	ppm	0	0	0	0
Boron	ppm	339	312	307	313

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: 5630299
 Signed: Wes Davis
 Report Date: 21 Aug 2023



GRAPHS

