

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138442 - Front Right Wheel Hub

Sample No: LH0274619

Oil Type: GEAR OIL SAE 80W90



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

Sample Number	LH0274619	LH0251842	LH0242642	LH0239588
Sample Date	20 Aug 2023	23 Mar 2023	19 Oct 2022	03 Aug 2022
Machine Hours	4196	2454	1200	492
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	105	88.2	115	133
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CONTAMINATION

Silicon	ppm	22	121	18	13
Sodium	ppm	1	8	6	2
Potassium	ppm	<1	2	2	<1



WEAR METALS

PQ		---	30	6	---
Iron	ppm	13	480	450	206
Copper	ppm	19	65	38	19
Lead	ppm	<1	2	1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	11	4	2
Chromium	ppm	0	3	3	2
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	7	5	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	15	162	33	25
Magnesium	ppm	2	4	2	1
Zinc	ppm	22	207	52	38
Phosphorus	ppm	1322	1237	1275	1110
Barium	ppm	0	0	0	0
Boron	ppm	336	124	48	4

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. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: COMWES
Unique No: 5630312
Signed: Kevin Marson
Report Date: 22 Aug 2023



GRAPHS

