

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138442 - Rear Right Wheel Hub

Sample No: LH0274627

Oil Type: GEAR OIL SAE 75W90



SAMPLE INFORMATION

Sample Number	LH0274627	LH0251843	LH0242640	LH0239589
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	NORMAL	NORMAL	NORMAL

CMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
 NORTH YORK, ON
 CA M9L 1P9
 Contact: Greg Sacher
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 T: (416)642-7262
 F:



OIL CONDITION

Visc @ 40°C	cSt	105	95.6	107	139
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CONTAMINATION

Silicon	ppm	20	51	9	9
Sodium	ppm	<1	2	2	2
Potassium	ppm	<1	<1	<1	1



WEAR METALS

Iron	ppm	13	44	100	253
Copper	ppm	19	24	24	20
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	4	<1	<1
Chromium	ppm	0	<1	<1	1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	2	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	15	48	41	34
Magnesium	ppm	2	3	2	<1
Zinc	ppm	22	61	25	34
Phosphorus	ppm	1350	1333	1358	1321
Barium	ppm	0	0	0	<1
Boron	ppm	334	282	226	5

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: 5630317
 Signed: Kevin Marson
 Report Date: 22 Aug 2023



GRAPHS

