

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 137429 - Front Right Wheel Hub

Sample No: LH0284886

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	LH0284886	LH0274504	LH0247026	LH0251877
Sample Date	01 Feb 2024	20 Aug 2023	11 Jun 2023	23 Feb 2023
Machine Hours	8133	6359	5689	4360
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	98.2	101	100	101



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	2	3	4
Sodium	ppm	2	3	3	2
Potassium	ppm	<1	<1	1	<1



WEAR METALS

Iron	ppm	17	19	19	21
Copper	ppm	43	48	46	37
Lead	ppm	1	1	1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	28	59	66	57
Magnesium	ppm	2	2	2	2
Zinc	ppm	46	51	50	43
Phosphorus	ppm	1247	1370	1361	1372
Barium	ppm	0	0	0	0
Boron	ppm	301	319	263	263

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: 5733500
 Signed: Wes Davis
 Report Date: 20 Feb 2024

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GRAPHS

