

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 137429 - Front Left Wheel Hub

Sample No: LH0284887

Oil Type: GEAR OIL SAE 75W90



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



#### SAMPLE INFORMATION

Sample Number	LH0284887	LH0274508	LH0247027	LH0251881
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	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	97.2	95.0	86.1	89.5



#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	19	18	22	23
Copper	ppm	15	29	28	21
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	0	<1	<1	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	1	1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	62	136	211	196
Magnesium	ppm	2	2	2	2
Zinc	ppm	50	102	168	143
Phosphorus	ppm	1263	1311	1251	1274
Barium	ppm	0	0	0	0
Boron	ppm	292	285	213	219

#### 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: 5733497  
 Signed: Wes Davis  
 Report Date: 20 Feb 2024

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### GRAPHS

