

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 117 616-1216 - Front Left Wheel Hub

Sample No: LH0278605

Oil Type: SAE 80W90



**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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#### SAMPLE INFORMATION

Sample Number	LH0278605	LH0277426	LH0265697	LH0257033
Sample Date	08 Feb 2024	05 Nov 2023	11 Jun 2023	12 Apr 2023
Machine Hours	14242	14022	12865	12345
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	100	97.9	97.9	92.3



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	2	1
Sodium	ppm	2	2	1	1
Potassium	ppm	2	0	<1	0



#### WEAR METALS

Iron	ppm	10	17	17	17
Copper	ppm	9	22	16	13
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	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	11	14	11	19
Magnesium	ppm	1	1	2	2
Zinc	ppm	30	45	45	65
Phosphorus	ppm	1003	1240	1351	1293
Barium	ppm	0	<1	0	0
Boron	ppm	240	302	295	287

#### 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: LIEMIS  
 Unique No: 5723860  
 Signed: Kevin Marson  
 Report Date: 13 Feb 2024



### GRAPHS

