

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 145111-1217 - Front Left Wheel Hub

Sample No: LH0296531

Oil Type: GEAR OIL SAE 80W90



#### RAM IRON AND METAL

60 Ashwarren Road  
TORONTO, ON  
CA M3J 1Z5  
Contact: PETER RACCO  
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#### Sample Information

Sample Number	LH0296531	LH0285006	LH0247465	LH0261406
Sample Date	07 Jul 2024	12 Feb 2024	20 Jun 2023	27 Apr 2023
Machine Hours	4008	2972	1188	558
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	105	91.5	116	152



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	4	<1	5
Sodium	ppm	2	<1	2	5
Potassium	ppm	<1	<1	<1	1



#### Wear Metals

Iron	ppm	61	2	22	88
Copper	ppm	15	5	7	12
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	<1	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	0	<1	3
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	11	3	11	18
Magnesium	ppm	2	<1	2	2
Zinc	ppm	22	6	16	47
Phosphorus	ppm	1242	696	1386	1626
Barium	ppm	12	<1	27	103
Boron	ppm	278	5	237	95

#### 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: RAMTOR  
Unique No: 5811946  
Signed: Wes Davis  
Report Date: 09 Jul 2024



### Graphs

