

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145111-1217 - Rear Right Wheel Hub

Sample No: LH0296534

Oil Type: GEAR OIL SAE 80W90



RAM IRON AND METAL

60 Ashwarren Road
TORONTO, ON
CA M3J 1Z5
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Sample Information

Sample Number	LH0296534	LH0285007	LH0247463	LH0261402
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	93.5	94.8	112	176
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	8	7	4	2
Sodium	ppm	<1	<1	1	4
Potassium	ppm	0	<1	<1	<1



Wear Metals

Iron	ppm	13	11	12	29
Copper	ppm	15	9	15	6
Lead	ppm	0	0	<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	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	3	3	7	8
Magnesium	ppm	<1	<1	1	1
Zinc	ppm	12	9	16	11
Phosphorus	ppm	787	794	1332	1357
Barium	ppm	8	7	46	279
Boron	ppm	47	50	267	32

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: 5811944
Signed: Wes Davis
Report Date: 09 Jul 2024



Graphs

