

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145111-1217 - Rear Left Wheel Hub

Sample No: LH0296533

Oil Type: GEAR OIL SAE 80W90



Sample Information

Sample Number	LH0296533	LH0285004	LH0247464	LH0261407
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

RAM IRON AND METAL

60 Ashwarren Road
TORONTO, ON
CA M3J 1Z5
Contact: PETER RACCO
PETER@RAMIRON.COM
T: (416)630-4545
F: (416)630-5258



Oil Condition

Visc @ 40°C	cSt	93.8	95.0	114	175
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Contamination

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

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.



Wear Metals

Iron	ppm	14	11	11	26
Copper	ppm	15	9	16	6
Lead	ppm	0	<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	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	3	3	6	8
Magnesium	ppm	<1	<1	1	1
Zinc	ppm	12	9	16	9
Phosphorus	ppm	807	798	1357	1356
Barium	ppm	8	7	46	286
Boron	ppm	48	48	272	32

Depot: RAMTOR
Unique No: 5811947
Signed: Wes Davis
Report Date: 09 Jul 2024



Graphs

