

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145111-1217 - Front Right Wheel Hub

Sample No: LH0296532

Oil Type: GEAR OIL SAE 80W90



RAM IRON AND METAL

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TORONTO, ON
CA M3J 1Z5
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Sample Information

Sample Number	LH0296532	LH0285005	LH0247462	LH0261409
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	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	104	91.0	121	159



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	4	2	6
Sodium	ppm	2	<1	2	5
Potassium	ppm	<1	<1	<1	<1



Wear Metals

Iron	ppm	47	2	38	78
Copper	ppm	12	5	8	12
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<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	10	3	15	18
Magnesium	ppm	2	<1	2	2
Zinc	ppm	20	7	23	47
Phosphorus	ppm	1252	708	1403	1598
Barium	ppm	16	<1	51	147
Boron	ppm	284	5	218	81

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: 5811945
Signed: Wes Davis
Report Date: 09 Jul 2024



Graphs

