

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 141098-1217 - Rear Right Wheel Hub

Sample No: LH0284994

Oil Type: GEAR OIL SAE 80W90



JOHN ZUBICK LTD.
 105 CLARKE ROAD
 LONDON, ON
 CA N5W 5C9
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SAMPLE INFORMATION

Sample Number	LH0284994	LH0251561	LH0234957	---
Sample Date	22 Feb 2024	24 Feb 2023	14 Nov 2022	---
Machine Hours	2811	934	467	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	109	111	181	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	4	2	3	---
Sodium	ppm	<1	<1	3	---
Potassium	ppm	<1	<1	0	---



WEAR METALS

Iron	ppm	21	12	20	---
Copper	ppm	37	8	10	---
Lead	ppm	<1	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	15	14	10	---
Magnesium	ppm	6	6	<1	---
Zinc	ppm	34	21	15	---
Phosphorus	ppm	1195	1286	1212	---
Barium	ppm	38	40	335	---
Boron	ppm	259	265	5	---

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: JOHLON
 Unique No: 5734844
 Signed: Kevin Marson
 Report Date: 23 Feb 2024



GRAPHS

