

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 141098-1217 - Swing Drive

Sample No: LH0278687

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	LH0278687	LH0251569	LH0234952	---
Sample Date	22 Feb 2024	24 Feb 2023	14 Nov 2022	---
Machine Hours	2811	934	467	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	100	108	● 169	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	● 2	● <1	● <1	---
Sodium	ppm	● <1	● <1	● 5	---
Potassium	ppm	● <1	● <1	● 2	---



WEAR METALS

Iron	ppm	● 285	● 41	● 118	---
Copper	ppm	● 56	● 26	● 25	---
Lead	ppm	● 1	● <1	● 1	---
Tin	ppm	● <1	● <1	● <1	---
Aluminum	ppm	● <1	● <1	● 0	---
Chromium	ppm	● 3	● <1	● <1	---
Molybdenum	ppm	● 0	● 0	● 0	---
Nickel	ppm	● <1	● <1	● <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	● 2	● <1	● 1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	● 8	● 8	● 14	---
Magnesium	ppm	● 1	● <1	● <1	---
Zinc	ppm	● 11	● 10	● 11	---
Phosphorus	ppm	● 1248	● 1372	● 2359	---
Barium	ppm	● <1	● <1	● 3	---
Boron	ppm	● 289	● 252	● 3	---

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: 5734842
 Signed: Wes Davis
 Report Date: 23 Feb 2024



GRAPHS

