

LIEBHERR

CONSTRUCTION EQUIPMENT



284 - Rear Right Wheel Hub

Sample No: LH0265079

Oil Type: GEAR OIL SAE 90



SAMPLE INFORMATION

Sample Number	LH0265079	LH0122008	---	---
Sample Date	13 Dec 2023	30 Apr 2018	---	---
Machine Hours	24504	33072	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

Liebherr-Canada Ltd.

Fort McKay Industrial Park, Lot No. 12 and 13
Fort McMurray, AB
CA T9H 5N3
Contact: Corey Ekroth
corey.ekroth@liebherr.com
T: (780)791-2967
F:



OIL CONDITION

Visc @ 40°C	cSt	243	● 183	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 2	● 9	---	---
Sodium	ppm	● 7	● 3	---	---
Potassium	ppm	● <1	● 1	---	---

Diagnosis

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	● 19	● 330	---	---
Copper	ppm	● <1	● 8	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	● <1	● 1	---	---
Chromium	ppm	● <1	● 9	---	---
Molybdenum	ppm	● 0	● 3	---	---
Nickel	ppm	● <1	● 3	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	● 0	● 4	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	● 16	● 2	---	---
Magnesium	ppm	● 3	● <1	---	---
Zinc	ppm	● 19	● 10	---	---
Phosphorus	ppm	● 1005	● 1278	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 239	● 221	---	---

Depot: LIEFTM
Unique No: 5697579
Signed: Kevin Marson
Report Date: 20 Dec 2023



GRAPHS

