

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L546 054052-1560 - Rear Right Wheel Hub

Sample No: LH0169009

Oil Type: GEAR OIL SAE 75W90



Sample Information

Sample Number	LH0169009	LH0169035	LH0169022	LH0168996
Sample Date	11 Jun 2024	10 Jan 2023	15 Sep 2022	14 Jun 2021
Machine Hours	7137	4988	4420	2095
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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Oil Condition

Visc @ 40°C	cSt	108	114	116	106
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 0	● 2	● 1	● 6
Sodium	ppm	● 1	● 2	● 1	● 2
Potassium	ppm	● 4	● 4	● 4	● 2



Wear Metals

PQ		---	● 0	● 0	---
Iron	ppm	● 421	● 828	● 640	● 36
Copper	ppm	● <1	● <1	● <1	● <1
Lead	ppm	● 0	● 0	● 0	● <1
Tin	ppm	0	0	0	0
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 5	● 8	● 7	● <1
Molybdenum	ppm	● <1	● 0	● 0	● <1
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	● 2	● 7	● 5	● <1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	● 12	● 5	● 5	● 13
Magnesium	ppm	● 5	● <1	● <1	● <1
Zinc	ppm	● 18	● 15	● 12	● 10
Phosphorus	ppm	633	● 1487	● 1155	● 1236
Barium	ppm	● 0	● 0	● 0	● 2
Boron	ppm	● 2	● 15	● 12	● 8

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: MOOPAL
 Unique No: 5812312
 Signed: Wes Davis
 Report Date: 09 Jul 2024



Graphs

