

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L546 054052-1560 - Rear Differential

Sample No: LH0169001

Oil Type: GEAR OIL SAE 75W90



Sample Information

Sample Number	LH0169001	LH0169014	LH0168988	LH0168975
Sample Date	11 Jun 2024	15 Jul 2022	14 Jun 2021	08 Dec 2020
Machine Hours	7137	3877	2095	1079
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MOOREFIELD EXCAVATING LTD.
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Oil Condition

Visc @ 40°C	cSt	99.1	86.6	102	183



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	1	6	18
Sodium	ppm	6	2	4	11
Potassium	ppm	7	<1	1	4



Wear Metals

Iron	ppm	242	25	36	136
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	0	<1	1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	2	<1	<1	2
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	22	10	17	18
Magnesium	ppm	8	2	<1	1
Zinc	ppm	41	17	15	14
Phosphorus	ppm	1740	3378	2269	2221
Barium	ppm	<1	0	<1	<1
Boron	ppm	4	176	8	2

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: 5812311
 Signed: Wes Davis
 Report Date: 09 Jul 2024



Graphs

