

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L542 039769-1269 - Rear Right Wheel Hub

Sample No: LH06060472

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH06060472	LHMC131337	LHMC123391	LHMC110112
Sample Date	19 Dec 2023	27 Dec 2019	09 May 2019	26 Jan 2017
Machine Hours	8181	5790	4848	1983
Oil Hours	500	0	2000	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OZINGA MATERIALS
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OIL CONDITION

Visc @ 40°C	cSt	184	191	184	133.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	4	9	13
Sodium	ppm	2	3	3	2
Potassium	ppm	1	0	6	0

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.



WEAR METALS

Iron	ppm	111	118	137	104
Copper	ppm	2	11	41	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	0	1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	1	1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	2	5	10	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	37	13	14	25
Magnesium	ppm	0	2	2	0
Zinc	ppm	25	16	23	14
Phosphorus	ppm	2546	1931	1890	1808
Barium	ppm	0	0	<1	1
Boron	ppm	33	18	37	212

Depot: CHICHILH
 Unique No: 10831854
 Signed: Don Baldrige
 Report Date: 16 Jan 2024



GRAPHS

