

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L542 039769-1269 - Front Left Wheel Hub

Sample No: LH06060475

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH06060475	LHMC131338	LHMC123387	LHMC110039
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

11701 S TORRENCE AVE
CHICAGO, IL
US 60617
Contact: RYAN DEWINDT
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OIL CONDITION

Visc @ 40°C	cSt	188	188	176	134.9
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	5	10	14
Sodium	ppm	2	3	3	1
Potassium	ppm	<1	0	0	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	109	212	129	209
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	1
Aluminum	ppm	<1	<1	1	0
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	3	2	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	28	10	19	12
Magnesium	ppm	0	2	3	0
Zinc	ppm	29	8	7	11
Phosphorus	ppm	2424	1956	1969	1797
Barium	ppm	0	<1	<1	<1
Boron	ppm	10	2	4	212

Depot: CHICHILH
Unique No: 10831857
Signed: Don Baldrige
Report Date: 16 Jan 2024



GRAPHS

