

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L542 039769-1269 - Front Differential

Sample No: LH06060473

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH06060473	LH0217339	LHMC131336	LHMC123392
Sample Date	19 Dec 2023	08 Apr 2022	27 Dec 2019	09 May 2019
Machine Hours	8181	7234	5790	4848
Oil Hours	500	0	0	2000
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OZINGA MATERIALS
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OIL CONDITION

Visc @ 40°C	cSt	● 133	● 127	● 195	● 193
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 2	● 2	● 1	● <1
Sodium	ppm	● 0	● 1	● 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	● 11	● 12	● 12	● 6
Copper	ppm	● 0	● <1	● <1	● <1
Lead	ppm	● 0	● 0	● <1	● 0
Tin	ppm	● 0	● <1	● 0	● 0
Aluminum	ppm	● 0	● <1	● 0	● 0
Chromium	ppm	● 0	● <1	● <1	● <1
Molybdenum	ppm	● 0	● <1	● <1	● 0
Nickel	ppm	● 0	● 0	● 0	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	● 62	● 332	● 6	● 4
Magnesium	ppm	● <1	● 4	● <1	● <1
Zinc	ppm	● 22	● 126	● 3	● 1
Phosphorus	ppm	● 2069	● 1858	● 1935	● 1963
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 324	● 323	● 18	● 16

Depot: CHICHILH
Unique No: 10831855
Signed: Don Baldrige
Report Date: 16 Jan 2024



GRAPHS

