

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 101800-1215 - Rear Right Wheel Hub

Sample No: LH06042450

Oil Type: GEAR OIL SAE 80W90



DIEHL AND NUEMAIER
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 DE FOREST, WI
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SAMPLE INFORMATION

Sample Number	LH06042450	LH05687462	LH05182647	LHMC141262
Sample Date	20 Dec 2023	07 Nov 2022	14 Feb 2021	21 Nov 2019
Machine Hours	6013	5028	2992	2034
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	179	180	188	192
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	1	2	5
Sodium	ppm	3	4	7	10
Potassium	ppm	0	0	<1	4



WEAR METALS

Iron	ppm	32	18	29	60
Copper	ppm	12	8	8	30
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	21	51	18	40
Magnesium	ppm	<1	0	2	<1
Zinc	ppm	7	15	1	29
Phosphorus	ppm	2389	2355	2168	2152
Barium	ppm	0	0	0	0
Boron	ppm	2	1	20	3

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: DIEDEF
Unique No: 10803058
Signed: Wes Davis
Report Date: 22 Dec 2023



GRAPHS

