

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 101800-1215 - Rear Left Wheel Hub

Sample No: LH06064419

Oil Type: GEAR OIL SAE 80W90



DIEHL AND NUEMAIER
 5466 NORWAY GROVE SCHOOL RD
 DE FOREST, WI
 US 53532
 Contact: ELLIOT DIEHL
 diehlneumaier@yahoo.com
 T: (608)846-4824
 F: (608)846-2077



SAMPLE INFORMATION

Sample Number	LH06064419	LH05687461	LH05182644	LHMC98615
Sample Date	25 Dec 2023	07 Nov 2022	14 Feb 2021	20 Nov 2019
Machine Hours	6013	5028	2992	2034
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	178	179	188	192
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	1	5	7
Sodium	ppm	4	3	6	13
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	35	19	27	88
Copper	ppm	12	8	7	43
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	0	0
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	0	3	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	29	34	14	64
Magnesium	ppm	0	0	2	0
Zinc	ppm	14	7	0	39
Phosphorus	ppm	2320	2333	2168	3037
Barium	ppm	0	0	0	<1
Boron	ppm	11	2	23	4

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

Depot: DIEDEF
Unique No: 10804804
Signed: Sean Felton
Report Date: 27 Dec 2023



GRAPHS

