

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-109092 - Front Left Wheel Hub

Sample No: LHMC149930

Oil Type: GEAR OIL SAE 75W90



AHLSTROM-MUNKSJO NA SPECIALTY
 PO BOX 600
 KAUKAUNA, WI
 US 54130
 Contact: JOE SEITZ
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Sample Information

Sample Number	LHMC149930	LHMC149916	LHMC154186	LHMC162603
Sample Date	15 May 2024	13 Apr 2023	11 Oct 2022	08 Oct 2019
Machine Hours	16447	14565	12880	2525
Oil Hours	16447	522	10355	1355
Oil Changed	Not Chngd	Changed	N/A	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	89.7	95.1	86.5	110



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	10	6	8	10
Sodium	ppm	8	6	10	6
Potassium	ppm	3	<1	2	2



Wear Metals

Iron	ppm	406	316	476	148
Copper	ppm	166	104	136	46
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	6	4	8	2
Chromium	ppm	2	<1	2	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	2	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	9	6	10	4
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	115	28	58	64
Magnesium	ppm	2	0	1	0
Zinc	ppm	152	58	126	45
Phosphorus	ppm	2198	2030	2181	1908
Barium	ppm	0	0	0	<1
Boron	ppm	277	277	224	136

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: AHLKAU
 Unique No: 11036612
 Signed: Sean Felton
 Report Date: 22 May 2024



Graphs

