

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Rear Left Wheel Hub

Sample No: LH0211717

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	LH0211717	LH0211689	LH0211661	LH0211647
Sample Date	17 Jun 2024	31 Jan 2024	09 Aug 2023	28 Mar 2023
Machine Hours	12322	10743	8617	7200
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL



Oil Condition

Visc @ 40°C	cSt	96.8	103	144	147
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 8	● 6	● 24	● 24
Sodium	ppm	● 5	● 3	● 7	● 8
Potassium	ppm	● 2	● 0	● 2	● <1



Wear Metals

Iron	ppm	● 88	● 61	● 327	● 184
Copper	ppm	● 83	● 50	● 146	● 143
Lead	ppm	● 0	● 0	● 1	● 0
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 3	● <1	● 5	● 4
Chromium	ppm	● <1	● 0	● 2	● 1
Molybdenum	ppm	● 0	● 0	● 2	● 2
Nickel	ppm	● <1	● 0	● <1	● <1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	● 4	● 2	● 8	● 7
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	● 42	● 37	● 194	● 189
Magnesium	ppm	● <1	● <1	● 3	● 4
Zinc	ppm	● 76	● 48	● 121	● 120
Phosphorus	ppm	● 2353	● 2179	● 2063	● 2021
Barium	ppm	● 0	● 0	● 0	● <1
Boron	ppm	● 232	● 305	● 6	● 8

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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: AHLKAU
 Unique No: 11097176
 Signed: Don Baldrige
 Report Date: 26 Jun 2024



Graphs

