

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Rear Right Wheel Hub

Sample No: LH0211662

Oil Type: GEAR OIL SAE 75W90



AHLSTROM-MUNKSJO NA SPECIALTY
 PO BOX 600
 KAUKAUNA, WI
 US 54130
 Contact: JOE SEITZ
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 T:
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SAMPLE INFORMATION

Sample Number	LH0211662	LH0211648	LH0211634	LH0211620
Sample Date	09 Aug 2023	28 Mar 2023	18 Jan 2023	01 Nov 2022
Machine Hours	8617	7200	6180	5127
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	147	147	144	147



CONTAMINATION

Element	ppm	24	24	17	18
Silicon	ppm	24	24	17	18
Sodium	ppm	6	8	9	7
Potassium	ppm	1	1	1	1



WEAR METALS

Element	ppm	198	168	177	105
Iron	ppm	198	168	177	105
Copper	ppm	179	152	90	140
Lead	ppm	2	<1	1	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	6	5	4	4
Chromium	ppm	2	2	1	<1
Molybdenum	ppm	2	2	2	2
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	8	7	5	5
Vanadium	ppm	0	<1	0	0



ADDITIVES

Element	ppm	229	197	190	201
Calcium	ppm	229	197	190	201
Magnesium	ppm	3	5	2	2
Zinc	ppm	137	137	97	107
Phosphorus	ppm	2067	2241	1837	2157
Barium	ppm	0	1	3	0
Boron	ppm	5	7	14	6

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: 10604508
 Signed: Jonathan Hester
 Report Date: 16 Aug 2023



GRAPHS

