

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Front Right Wheel Hub

Sample No: LH0211688

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	LH0211688	LH0211660	LH0211646	LH0211632
Sample Date	31 Jan 2024	09 Aug 2023	28 Mar 2023	18 Jan 2023
Machine Hours	10743	8617	7200	6180
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	103	135	134	138
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 10	● 16	● 20	● 15
Sodium	ppm	● 6	● 12	● 14	● 11
Potassium	ppm	● 0	● 4	● 2	● 2



WEAR METALS

Iron	ppm	● 236	● 395	● 421	● 249
Copper	ppm	● 37	● 31	● 52	● 39
Lead	ppm	● 0	● <1	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● <1	● 3	● 3	● 3
Chromium	ppm	● <1	● 2	● 2	● 1
Molybdenum	ppm	● 0	● 1	● 2	● 1
Nickel	ppm	● 0	● <1	● <1	● <1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	● 3	● 6	● 7	● 5
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 63	● 227	● 232	● 213
Magnesium	ppm	● <1	● 3	● 5	● 2
Zinc	ppm	● 47	● 94	● 104	● 92
Phosphorus	ppm	● 2107	● 2028	● 1976	● 1856
Barium	ppm	● 0	● 0	● 0	● 3
Boron	ppm	● 249	● 12	● 24	● 26

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: AHLKAU
 Unique No: 10871835
 Signed: Wes Davis
 Report Date: 09 Feb 2024



GRAPHS

