

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Rear Differential

Sample No: LH0211681

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	LH0211681	LH0211653	LH0211639	LH0211625
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	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	100	148	146	148
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 6	● 24	● 21	● 17
Sodium	ppm	● 3	● 8	● 7	● 7
Potassium	ppm	● 0	● <1	● <1	● <1



WEAR METALS

Iron	ppm	● 40	● 180	● 153	● 102
Copper	ppm	● 56	● 185	● 156	● 133
Lead	ppm	● 0	● <1	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● <1	● 6	● 4	● 4
Chromium	ppm	● 0	● 2	● 1	● <1
Molybdenum	ppm	● 0	● 0	● 2	● 2
Nickel	ppm	● 0	● <1	● <1	● <1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	● 2	● 8	● 7	● 5
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	● 32	● 193	● 188	● 176
Magnesium	ppm	● <1	● 4	● 4	● 2
Zinc	ppm	● 48	● 127	● 119	● 105
Phosphorus	ppm	● 2154	● 2108	● 2031	● 1834
Barium	ppm	● 0	● <1	● <1	● 4
Boron	ppm	● 314	● 5	● 7	● 6

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: 10871830
 Signed: Wes Davis
 Report Date: 09 Feb 2024



GRAPHS

