

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Rear Differential

Sample No: LH0211653

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	LH0211653	LH0211639	LH0211625	LH0211611
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	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	MARGINAL



OIL CONDITION

Visc @ 40°C	cSt	148	146	148	151



CONTAMINATION

Element	ppm	24	21	17	17
Silicon	ppm	24	21	17	17
Sodium	ppm	8	7	7	7
Potassium	ppm	<1	<1	<1	4



WEAR METALS

Element	ppm	180	153	102	99
Iron	ppm	180	153	102	99
Copper	ppm	185	156	133	135
Lead	ppm	<1	0	<1	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	6	4	4	4
Chromium	ppm	2	1	<1	<1
Molybdenum	ppm	0	2	2	2
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	8	7	5	5
Vanadium	ppm	0	0	<1	0



ADDITIVES

Element	ppm	193	188	176	187
Calcium	ppm	193	188	176	187
Magnesium	ppm	4	4	2	2
Zinc	ppm	127	119	105	103
Phosphorus	ppm	2108	2031	1834	2102
Barium	ppm	<1	<1	4	35
Boron	ppm	5	7	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: 10606867
 Signed: Don Baldrige
 Report Date: 18 Aug 2023



GRAPHS

