

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Front Differential

Sample No: LH0211652

Oil Type: GEAR OIL SAE 75W90



AHLSTROM-MUNKSJO NA SPECIALTY
 PO BOX 600
 KAUKAUNA, WI
 US 54130
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SAMPLE INFORMATION

Sample Number	LH0211652	LH0211638	LH0211624	LH0211610
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	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	186	185	184	185



CONTAMINATION

Element	Unit	7	5	9	7
Silicon	ppm	7	5	9	7
Sodium	ppm	2	4	5	4
Potassium	ppm	<1	0	<1	16



WEAR METALS

Element	Unit	86	63	63	61
Iron	ppm	86	63	63	61
Copper	ppm	57	51	50	49
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	3	3	2	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	Unit	7	6	7	6
Calcium	ppm	7	6	7	6
Magnesium	ppm	<1	3	<1	0
Zinc	ppm	39	35	36	33
Phosphorus	ppm	1165	1046	1093	1182
Barium	ppm	354	347	367	363
Boron	ppm	<1	0	1	18

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

Depot: AHLKAU
 Unique No: 10604516
 Signed: Sean Felton
 Report Date: 16 Aug 2023



GRAPHS

