

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-123739 - Transmission

Sample No: LH0211658

Oil Type: DIESEL ENGINE OIL SAE 5W40



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	LH0211658	LH0211644	LH0211630	LH0211616
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	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	49.5	51.3	51.1	50.8
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CONTAMINATION

Element	Unit	4	3	3	4
Silicon	ppm	4	3	3	4
Sodium	ppm	0	2	3	5
Potassium	ppm	1	0	<1	<1



WEAR METALS

Element	Unit	21	12	12	15
Iron	ppm	21	12	12	15
Copper	ppm	14	10	15	26
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	4	2	3	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	47	44	43	44
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	7	5	4	6
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	Unit	1049	996	1005	1199
Calcium	ppm	1049	996	1005	1199
Magnesium	ppm	853	838	825	833
Zinc	ppm	1215	1166	1209	1282
Phosphorus	ppm	1094	979	1027	1115
Barium	ppm	0	0	2	0
Boron	ppm	161	151	137	136

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: AHLKAU
 Unique No: 10604550
 Signed: Sean Felton
 Report Date: 16 Aug 2023

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GRAPHS

