

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138442 - Transmission (Manual)

Sample No: LH0278797
 Oil Type: SAE 10W30



CMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
 NORTH YORK, ON
 CA M9L 1P9
 Contact: Greg Sacher
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SAMPLE INFORMATION

Sample Number	LH0278797	LH0274621	LH0242533	LH0195620
Sample Date	21 Jan 2024	20 Aug 2023	14 Oct 2022	03 Aug 2022
Machine Hours	6157	4196	1200	492
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	60.8	60.2	57.9	52.7
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	4	3	3
Sodium	ppm	3	7	51	83
Potassium	ppm	1	<1	3	4



WEAR METALS

Iron	ppm	10	12	11	12
Copper	ppm	10	18	23	28
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	1	<1	1
Aluminum	ppm	6	8	12	14
Chromium	ppm	0	0	0	0
Molybdenum	ppm	59	58	27	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	4	5	11	14
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1167	1055	2352	3385
Magnesium	ppm	959	981	414	8
Zinc	ppm	1197	1164	1153	1113
Phosphorus	ppm	1083	1153	1132	1034
Barium	ppm	0	0	<1	<1
Boron	ppm	10	29	4	5

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: COMWES
 Unique No: 5711417
 Signed: Kevin Marson
 Report Date: 22 Jan 2024



GRAPHS

