

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 083859-1203 - Transmission

Sample No: LH0278938

Oil Type: TDTO FLUID SAE 20



SAMPLE INFORMATION

Sample Number	LH0278938	LH0251382	LH0234708	LH0222731
Sample Date	21 Jan 2024	18 Jan 2023	21 Sep 2022	06 Jun 2022
Machine Hours	12230	10073	8941	7687
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RAM IRON AND METAL

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OIL CONDITION

Visc @ 40°C	cSt	59.0	60.1	59.3	57.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	4	4	5
Sodium	ppm	3	3	5	7
Potassium	ppm	1	0	<1	<1

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.



WEAR METALS

Iron	ppm	21	17	18	20
Copper	ppm	10	10	15	17
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	3	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	60	59	54	56
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	5	5	6	9
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1143	1196	1135	1271
Magnesium	ppm	974	960	880	913
Zinc	ppm	1198	1219	1130	1215
Phosphorus	ppm	1107	1162	1140	1154
Barium	ppm	0	0	0	<1
Boron	ppm	9	11	19	11

Depot: RAMTOR
Unique No: 5711415
Signed: Kevin Marson
Report Date: 22 Jan 2024



GRAPHS

