

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Transmission (Manual)

Sample No: LH0277108

Oil Type: PETRO CANADA DURON HP 15W40



J.D. Irving
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SAMPLE INFORMATION

Sample Number	LH0277108	LH0250292	LH0238567	LH0194733
Sample Date	13 Oct 2023	31 May 2023	24 Oct 2022	29 Oct 2021
Machine Hours	28718	26834	1000	20093
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	71.6	72.5	72.1	74.7
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CONTAMINATION

Silicon	ppm	7	4	5	4
Sodium	ppm	2	1	1	2
Potassium	ppm	0	0	0	<1



WEAR METALS

Iron	ppm	26	22	28	21
Copper	ppm	10	7	12	10
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	63	61	59	50
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	2	1	2	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1097	1107	1073	877
Magnesium	ppm	1016	982	940	831
Zinc	ppm	1239	1202	1157	1023
Phosphorus	ppm	1164	1208	1197	1280
Barium	ppm	<1	0	0	0
Boron	ppm	18	20	30	89

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. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Depot: JDITRU
Unique No: 5668213
Signed: Kevin Marson
Report Date: 24 Oct 2023



GRAPHS

