

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 110456-1216 - Transmission (Manual)

Sample No: LH0277121

Oil Type: PETRO CANADA DURON HP 15W40



SAMPLE INFORMATION

Sample Number	LH0277121	LH0234604	LH0246693	LH0230482
Sample Date	13 Oct 2023	01 Apr 2023	15 Dec 2022	25 Apr 2022
Machine Hours	17581	16012	0	13977
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

J.D. Irving

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OIL CONDITION

Visc @ 40°C	cSt	69.7	70.8	56.3	70.0
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CONTAMINATION

Silicon	ppm	8	4	7	4
Sodium	ppm	2	2	4	1
Potassium	ppm	<1	<1	1	0



WEAR METALS

Iron	ppm	31	28	138	24
Copper	ppm	5	4	2	4
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	1	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	51	38	0	62
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	2	8	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1351	1526	3446	1092
Magnesium	ppm	804	607	7	1039
Zinc	ppm	1226	1153	1332	1263
Phosphorus	ppm	1165	1153	1176	1181
Barium	ppm	<1	0	2	0
Boron	ppm	34	46	102	9

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

Depot: JDITRU
Unique No: 5668205
Signed: Kevin Marson
Report Date: 24 Oct 2023



GRAPHS

