

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Transmission (Manual)

Sample No: LH0238567

Oil Type: PETRO CANADA DURON HP 15W40



J.D. Irving

Truro Sawmill, 529 Valley Dale Road
Truro, NS
CA B2N 5C5
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SAMPLE INFORMATION

Sample Number	LH0238567	LH0194733	LH0194636	LH0183464
Sample Date	24 Oct 2022	29 Oct 2021	25 Jul 2021	08 Feb 2021
Machine Hours	1000	20093	18995	8850
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	72.1	74.7	72.0	71.1
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CONTAMINATION

Silicon	ppm	5	4	6	4
Sodium	ppm	1	2	2	2
Potassium	ppm	0	<1	<1	1



WEAR METALS

Iron	ppm	28	21	16	14
Copper	ppm	12	10	6	6
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	59	50	56	50
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1073	877	1003	991
Magnesium	ppm	940	831	925	797
Zinc	ppm	1157	1023	1125	1076
Phosphorus	ppm	1197	1280	1209	1113
Barium	ppm	0	0	0	<1
Boron	ppm	30	89	39	62

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: 5475419
Signed: Kevin Marson
Report Date: 25 Oct 2022



GRAPHS

