

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Transmission (Manual)

Sample No: LH0194636

Oil Type: PETRO CANADA DURON HP 15W40

J.D. Irving

Truro Sawmill, 529 Valley Dale Road
Truro, NS
CA B2N 5C5
Contact: Sheldon Richardson
richardson.sheldon@jdirving.com
T: (902)890-9419
F:

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the fluid from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. All component wear rates are normal. Moderate concentration of visible dirt/debris present 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 fluid is no longer serviceable due to the presence of contaminants.



SAMPLE INFORMATION

Sample Number		LH0194636	LH0183464	LH0180235	LH
Sample Date		25 Jul 2021	08 Feb 2021	06 Oct 2020	07 Jul 2020
Machine Hours		18995	8850	0	0
Oil Hours		0	0	0	0
Oil Changed		N/A	N/A	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	72.0	71.1	71.3	64.3
-------------	-----	-------------	------	------	------



CONTAMINATION

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



WEAR METALS

Iron	ppm	16	14	16	13
Copper	ppm	6	6	8	4
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	1	1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	56	50	39	51
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	1	1	2	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1003	991	877	1230
Magnesium	ppm	925	797	599	794
Zinc	ppm	1125	1076	869	1157
Phosphorus	ppm	1209	1113	1083	1034
Barium	ppm	0	<1	<1	0
Boron	ppm	39	62	110	42

Depot: JDITRU
 Unique No: 5254847
 Signed: Kevin Marson
 Report Date: 28 Jul 2021

LIEBHERR

CONSTRUCTION EQUIPMENT



GRAPHS

