

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Transmission (Manual)

Sample No: LH0183464

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:



SAMPLE INFORMATION

Sample Number	LH0183464	LH0180235	LH	LH0139129
Sample Date	08 Feb 2021	06 Oct 2020	07 Jul 2020	01 Mar 2020
Machine Hours	8850	0	0	13087
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	71.1	71.3	64.3	58.4
-------------	-----	-------------	------	------	------



CONTAMINATION

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



WEAR METALS

Iron	ppm	14	16	13	21
Copper	ppm	6	8	4	6
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	50	39	51	42
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	1	2	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	991	877	1230	1498
Magnesium	ppm	797	599	794	554
Zinc	ppm	1076	869	1157	1067
Phosphorus	ppm	1113	1083	1034	973
Barium	ppm	<1	<1	0	<1
Boron	ppm	62	110	42	90

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: 5174404
Signed: Bill Quesnel
Report Date: 10 Feb 2021



GRAPHS

