

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Transmission (Manual)

Sample No: LH0180235

Oil Type: PETRO CANADA DURON HP 15W40



#### SAMPLE INFORMATION

Sample Number	LH0180235	LH	LH0139129	LH0136432
Sample Date	06 Oct 2020	07 Jul 2020	01 Mar 2020	08 Nov 2019
Machine Hours	0	0	13087	12984
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

J.D. Irving

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#### OIL CONDITION

Visc @ 40°C	cSt	71.3	64.3	58.4	51.8
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#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	16	13	21	15
Copper	ppm	8	4	6	7
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	39	51	42	27
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	2	1	2	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	877	1230	1498	1769
Magnesium	ppm	599	794	554	254
Zinc	ppm	869	1157	1067	928
Phosphorus	ppm	1083	1034	973	859
Barium	ppm	<1	0	<1	<1
Boron	ppm	110	42	90	143

#### 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: 5122466  
Signed: Kevin Marson  
Report Date: 22 Oct 2020



### GRAPHS

