

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Swing Drive

Sample No: LH0194635

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

Sample Number	LH0194635	LH0183465	LH0180236	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	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

J.D. Irving

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#### OIL CONDITION

Visc @ 40°C	cSt	96.6	99.8	102	98.5
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#### CONTAMINATION

Silicon	ppm	4	5	5	3
Sodium	ppm	2	3	<1	<1
Potassium	ppm	<1	2	<1	1



#### WEAR METALS

PQ		---	0	8	---
Iron	ppm	11	1045	1265	927
Copper	ppm	1	80	176	166
Lead	ppm	<1	2	5	5
Tin	ppm	0	1	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	11	12	6
Molybdenum	ppm	4	1	<1	<1
Nickel	ppm	<1	2	1	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	3
Manganese	ppm	<1	8	10	7
Vanadium	ppm	0	<1	<1	<1



#### ADDITIVES

Calcium	ppm	75	14	8	7
Magnesium	ppm	69	<1	2	3
Zinc	ppm	115	21	22	21
Phosphorus	ppm	1249	1118	1166	1163
Barium	ppm	<1	0	0	0
Boron	ppm	231	214	128	209

#### 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 oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: JDITRU  
Unique No: 5254898  
Signed: Wes Davis  
Report Date: 26 Jul 2021



### GRAPHS

