

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Front Differential

Sample No: LH0230415

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



**J.D. Irving**  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0230415</b>	LH0194736	LH0194638	LH0183459
Sample Date	<b>05 May 2022</b>	29 Oct 2021	25 Jul 2021	08 Feb 2021
Machine Hours	<b>22099</b>	20093	18995	8850
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>98.8</b>	104	99.8	102
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#### CONTAMINATION

Silicon	ppm	<b>1</b>	2	2	3
Sodium	ppm	<b>0</b>	<1	<1	<1
Potassium	ppm	<b>&lt;1</b>	<1	1	<1



#### WEAR METALS

Iron	ppm	<b>5</b>	4	4	2
Copper	ppm	<b>1</b>	<1	2	<1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>&lt;1</b>	0	3	3
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>50</b>	8	57	61
Magnesium	ppm	<b>2</b>	2	52	49
Zinc	ppm	<b>33</b>	7	66	69
Phosphorus	ppm	<b>1280</b>	1403	1262	1171
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>302</b>	351	292	287

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** JDITRU  
**Unique No:** 5409261  
**Signed:** Kevin Marson  
**Report Date:** 02 Jun 2022



### GRAPHS

