

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(353219)] LIEBHERR LH50M 129342-1216 - Front Right Wheel

Sample No: LH0239970

Oil Type: TOTAL FINA TOTAL TRANSMISSION SYN NA 75W90



**HUBERT & FILS**

474 ROUTE 105  
BOIS-FRANC, QC  
CA J9E 3A9

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### Sample Information

Sample Number	<b>LH0239970</b>	LH0208249	LH0208216	LH0208213
Sample Date	<b>05 Apr 2024</b>	27 Dec 2022	27 Nov 2021	15 Sep 2021
Machine Hours	<b>12995</b>	7800	2368	1000
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	NORMAL



### Oil Condition

Visc @ 40°C	cSt	<b>114</b>	82.6	59.1	84.8
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### Contamination

Water	%	<b>NEG</b>	NEG	NEG	0.027
Silicon	ppm	<b>12</b>	32	20	78
Sodium	ppm	<b>7</b>	2	2	9
Potassium	ppm	<b>3</b>	<1	1	3



### Wear Metals

PQ		<b>173</b>	---	---	---
Iron	ppm	<b>359</b>	62	308	396
Copper	ppm	<b>10</b>	13	41	61
Lead	ppm	<b>0</b>	<1	1	3
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	2	3	7
Chromium	ppm	<b>1</b>	<1	1	3
Molybdenum	ppm	<b>0</b>	<1	<1	2
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>3</b>	1	3	6
Vanadium	ppm	<b>0</b>	0	0	<1



### Additives

Calcium	ppm	<b>8</b>	62	543	417
Magnesium	ppm	<b>2</b>	4	9	4
Zinc	ppm	<b>16</b>	145	428	246
Phosphorus	ppm	<b>1311</b>	1223	799	1269
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>11</b>	20	28	4

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: HUBBOI  
Unique No: 5761130  
Signed: Kevin Marson  
Report Date: 10 Apr 2024



### Graphs

