

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(336343)] LIEBHERR LH50M 124905-1216 - Rear Differential

Sample No: LH0225001

Oil Type: GEAR OIL SAE 75W90



**CANFOR**  
101-161 E 4TH AVE  
VANCOUVER, BC  
CA V5T 3C1  
Contact: Service Manager



#### Sample Information

Sample Number	LH0225001	LH0182502	LH	LH0182474
Sample Date	27 Jun 2024	01 Jun 2021	05 May 2021	11 Mar 2021
Machine Hours	22074	4702	0	3062
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	178	105	86.5	90.0
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	14	2	6	6
Sodium	ppm	<1	1	9	5
Potassium	ppm	<1	<1	<1	0



#### Wear Metals

Iron	ppm	79	20	122	88
Copper	ppm	3	4	15	12
Lead	ppm	0	<1	1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	2	1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	3090	18	91	89
Magnesium	ppm	12	1	<1	<1
Zinc	ppm	921	10	31	26
Phosphorus	ppm	920	1487	1783	1735
Barium	ppm	<1	0	<1	<1
Boron	ppm	37	255	13	7

T:  
F:

#### 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. Viscosity of sample indicates oil is within SAE 50 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 oil is acceptable for the time in service.

Depot: CAN101VAN  
Unique No: 5803089  
Signed: Kevin Marson  
Report Date: 05 Jul 2024



### Graphs

