

LIEBHERR

CONSTRUCTION EQUIPMENT



[(336343)] LIEBHERR LH50M 124905-1216 - Front Left Wheel

Sample No: LH0290544

Oil Type: GEAR OIL SAE 75W90



Sample Information

Sample Number	LH0290544	LH0182508	LH0182494	LH0182480
Sample Date	27 Jun 2024	01 Jun 2021	29 Apr 2021	11 Mar 2021
Machine Hours	22074	4702	4100	3062
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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



Oil Condition

Visc @ 40°C	cSt	179	90.9	73.1	76.8
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	3	5	6
Sodium	ppm	<1	5	7	6
Potassium	ppm	<1	1	1	0

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.



Wear Metals

Iron	ppm	172	95	188	114
Copper	ppm	8	16	21	16
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	<1	1	1
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	6	<1
Manganese	ppm	1	2	3	2
Vanadium	ppm	0	0	<1	0



Additives

Calcium	ppm	3035	29	81	82
Magnesium	ppm	8	<1	<1	<1
Zinc	ppm	943	22	42	40
Phosphorus	ppm	860	1534	1667	1638
Barium	ppm	0	0	0	0
Boron	ppm	24	180	5	5

Depot: CAN101VAN
Unique No: 5803091
Signed: Kevin Marson
Report Date: 05 Jul 2024



Graphs

