

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0290553

Oil Type: GEAR OIL SAE 75W90



Sample Information

Sample Number	LH0290553	LH0182509	LH0182495	LH0182481
Sample Date	27 Jun 2024	21 Jul 2021	29 Apr 2021	11 Mar 2021
Machine Hours	22074	0	4100	3062
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	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	155	93.3	77.7	83.0
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	2	6	8
Sodium	ppm	<1	5	7	7
Potassium	ppm	0	2	<1	2

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	47	67	170	129
Copper	ppm	3	6	10	9
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	0	<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	2
Vanadium	ppm	0	<1	<1	0



Additives

Calcium	ppm	2367	33	103	105
Magnesium	ppm	5	<1	<1	1
Zinc	ppm	718	17	39	39
Phosphorus	ppm	956	1564	1731	1736
Barium	ppm	<1	0	0	0
Boron	ppm	82	187	6	5

Depot: CAN101VAN
Unique No: 5803092
Signed: Kevin Marson
Report Date: 05 Jul 2024



Graphs

