

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 118290-1216 - Front Left Wheel Hub

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



Weyerhaeuser
 1000 Jones road
 Kenora, ON
 CA P9N 3X8
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Sample Information

Sample Number	LH	LH0158913	LH0158899	LH0158885
Sample Date	10 Nov 2021	09 Oct 2021	05 Aug 2021	09 Jun 2021
Machine Hours	10280	9990	9041	8025
Oil Hours	290	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	178	193	193	190
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	5	5	5
Sodium	ppm	3	4	6	5
Potassium	ppm	<1	<1	<1	<1



Wear Metals

Iron	ppm	156	207	217	88
Copper	ppm	7	12	7	6
Lead	ppm	1	<1	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	1	2	2	1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	6	4	8	14
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	11	18	19	26
Phosphorus	ppm	2545	2332	2431	2272
Barium	ppm	0	0	0	0
Boron	ppm	3	4	4	3

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: WEY100KEN
Unique No: 5315512
Signed: Wes Davis
Report Date: 11 Nov 2021



Graphs

