

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 139284-1253 - Front Right Wheel Hub

Sample No: LH0241901

Oil Type: LIEBHERR GEAR BASIC 90 LS



HUBERT & FILS

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

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SAMPLE INFORMATION

Sample Number	LH0241901	LH0241889	LH0241877	LH0239958
Sample Date	01 Mar 2024	05 Jan 2024	31 Oct 2023	04 Sep 2023
Machine Hours	3900	3235	2739	2265
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	127	187	177	179



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	4	2	2
Sodium	ppm	2	3	4	6
Potassium	ppm	<1	0	0	<1



WEAR METALS

Iron	ppm	27	42	25	25
Copper	ppm	1	2	2	4
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	26	48	87	121
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	14	14	31	39
Phosphorus	ppm	1465	2254	2261	2281
Barium	ppm	<1	<1	0	<1
Boron	ppm	2	1	3	4

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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: HUBBOI

Unique No: 5750522

Signed: Wes Davis

Report Date: 28 Mar 2024



GRAPHS

