

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 - Front Left Wheel Hub

Sample No: LH0278994

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0278994	LH0215989	LH0239235	LH
Sample Date	08 Jan 2024	09 May 2023	29 Aug 2022	26 Jan 2022
Machine Hours	8104	7133	6053	4903
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal

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OIL CONDITION

Visc @ 40°C	cSt	124	148	101	104



CONTAMINATION

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

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.



WEAR METALS

Iron	ppm	26	42	34	64
Copper	ppm	6	7	13	12
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	10	12	10	13
Magnesium	ppm	1	<1	2	2
Zinc	ppm	15	17	21	24
Phosphorus	ppm	1632	2124	1211	1273
Barium	ppm	3	5	15	39
Boron	ppm	191	97	299	286

Depot: BAKOTT
Unique No: 5711757
Signed: Wes Davis
Report Date: 23 Jan 2024



GRAPHS

