

LIEBHERR

CONSTRUCTION EQUIPMENT



113718-1216 - Front Right Wheel Hub

Sample No: LH0279269

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0279269	LH0234881	LH0203488	LH
Sample Date	16 Jan 2024	25 Jul 2022	18 Aug 2021	06 Apr 2021
Machine Hours	5998	4000	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal

2555 Sheffield Road
Ottawa, ON
CA K1B 3V6
Contact: Dan Dupelle
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OIL CONDITION

Visc @ 40°C	cSt	126	178	147	94.5
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	5	3	8
Sodium	ppm	2	5	5	10
Potassium	ppm	1	2	<1	2



WEAR METALS

Iron	ppm	26	36	17	42
Copper	ppm	9	7	7	14
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	35	25	35	85
Magnesium	ppm	1	1	1	3
Zinc	ppm	11	22	26	59
Phosphorus	ppm	1729	2281	2649	3414
Barium	ppm	0	0	0	<1
Boron	ppm	137	21	58	168

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: BAKOTT
Unique No: 5710823
Signed: Wes Davis
Report Date: 18 Jan 2024

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GRAPHS

