

LIEBHERR

CONSTRUCTION EQUIPMENT



113718-1216 - Rear Right Wheel Hub

Sample No: LH0279267

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0279267	LH0234883	LH0203484	LH
Sample Date	16 Jan 2024	22 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
ddupelle@aim-rg.com
T: (613)228-9380
F: (613)745-0692



OIL CONDITION

Visc @ 40°C	cSt	105	182	160	95.6
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	2	1	5
Sodium	ppm	2	3	2	2
Potassium	ppm	1	<1	<1	<1



WEAR METALS

Iron	ppm	18	16	8	17
Copper	ppm	25	9	13	34
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	15	9	14	22
Magnesium	ppm	1	<1	<1	2
Zinc	ppm	25	12	13	37
Phosphorus	ppm	2646	2314	2356	2462
Barium	ppm	0	0	0	<1
Boron	ppm	211	17	40	272

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 75W90 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.

Depot: BAKOTT
Unique No: 5710817
Signed: Kevin Marson
Report Date: 18 Jan 2024



GRAPHS

