

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 -Rear Differential

Sample No: LH0277750

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0277750	LH0128848	LH0239236	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	103	110	103	101



CONTAMINATION

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



WEAR METALS

Iron	ppm	4	9	8	20
Copper	ppm	29	14	14	30
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	<1	0
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	8	12	8	7
Magnesium	ppm	2	5	1	2
Zinc	ppm	20	17	12	23
Phosphorus	ppm	1283	1644	1402	2193
Barium	ppm	<1	4	5	30
Boron	ppm	304	264	314	281

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: 5711752
Signed: Wes Davis
Report Date: 23 Jan 2024



GRAPHS

