

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Rear Differential

Sample No: LH0278520

Oil Type: LIEBHERR GEAR BASIC 90 LS



Gerdau - Mandak Metal Processors Ltd.,
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SAMPLE INFORMATION

Sample Number	LH0278520	LH	LH0265763	LH0250040
Sample Date	22 Dec 2023	15 Sep 2023	21 Aug 2023	28 May 2023
Machine Hours	7142	0	5330	4345
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	192	179	178	179
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CONTAMINATION

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



WEAR METALS

Iron	ppm	34	13	18	16
Copper	ppm	5	5	6	5
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	2	1	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	5	14	12	3
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	8	18	18	6
Phosphorus	ppm	2266	2258	2407	2456
Barium	ppm	0	0	0	0
Boron	ppm	0	1	<1	0

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.

Depot: MANSEL
 Unique No: 5720331
 Signed: Wes Davis
 Report Date: 25 Jan 2024



GRAPHS

