

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Front Differential

Sample No: LH0265762

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0265762	LH0250039	LH0150848	LH0150840
Sample Date	21 Aug 2023	28 May 2023	30 Mar 2023	29 Jan 2023
Machine Hours	5330	4345	3398	2283
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Gerdau - Mandak Metal Processors Ltd.,
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 Selkirk, MB
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OIL CONDITION

Visc @ 40°C	cSt	174	174	179	182
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CONTAMINATION

Silicon	ppm	4	3	3	6
Sodium	ppm	2	2	2	2
Potassium	ppm	0	<1	<1	0



WEAR METALS

Iron	ppm	30	33	55	70
Copper	ppm	7	8	15	28
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	2	2	4	12
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	12	4	11	5
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	10	6	8	10
Phosphorus	ppm	2339	2396	2441	2488
Barium	ppm	0	0	0	0
Boron	ppm	5	4	4	2

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: 5643665
 Signed: Wes Davis
 Report Date: 14 Sep 2023



GRAPHS

