

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 068244 - Front Differential

Sample No: LH0278519

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0278519	LH	LH0265762	LH0250039
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

**Gerdau - Mandak Metal Processors Ltd.,**  
 1 Railway St., P.O. Box 334  
 Selkirk, MB  
 CA R1A 2B3  
 Contact: Santiago Giraldo  
 santiago.giraldo@gerdau.com  
 T:  
 F: (204)482-8241



#### OIL CONDITION

Visc @ 40°C	cSt	183	183	174	174
-------------	-----	-----	-----	-----	-----



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	3	4	3
Sodium	ppm	2	3	2	2
Potassium	ppm	<1	0	0	<1

#### 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.



#### WEAR METALS

Iron	ppm	38	20	30	33
Copper	ppm	4	6	7	8
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	2	<1	2	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	4	10	12	4
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	6	12	10	6
Phosphorus	ppm	2314	2188	2339	2396
Barium	ppm	0	<1	0	0
Boron	ppm	2	6	5	4

Depot: MANSEL  
 Unique No: 5720332  
 Signed: Wes Davis  
 Report Date: 25 Jan 2024



### GRAPHS

