

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Front Differential

Sample No: LH0278597

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0278597	LH0278519	LH	LH0265762
Sample Date	21 Feb 2024	22 Dec 2023	15 Sep 2023	21 Aug 2023
Machine Hours	8026	7142	0	5330
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	193	183	183	174
-------------	-----	-----	-----	-----	-----



CONTAMINATION

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



WEAR METALS

Iron	ppm	33	38	20	30
Copper	ppm	5	4	6	7
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	2	2	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	5	4	10	12
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	5	6	12	10
Phosphorus	ppm	2311	2314	2188	2339
Barium	ppm	0	0	<1	0
Boron	ppm	<1	2	6	5

Depot: MANSEL
 Unique No: 5736735
 Signed: Wes Davis
 Report Date: 04 Mar 2024



GRAPHS

