

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Rear Differential

Sample No: LH0265763

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0265763	LH0250040	LH0150849	LH0150841
Sample Date	21 Aug 2023	28 May 2023	30 Mar 2023	28 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.,
 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	● 178	● 179	● 184	● 185
-------------	-----	-------	-------	-------	-------



CONTAMINATION

Silicon	ppm	● 4	● 2	● 4	● 7
Sodium	ppm	● 1	● 2	● 1	● 3
Potassium	ppm	● <1	● <1	● 0	● 0



WEAR METALS

Iron	ppm	● 18	● 16	● 43	● 57
Copper	ppm	● 6	● 5	● 20	● 30
Lead	ppm	● 0	● <1	● <1	● <1
Tin	ppm	● <1	● <1	● 2	● 2
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 0	● 0	● <1	● <1
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	● 0	● 0	● 0	● 0
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● 2	● 2	● 7	● 20
Vanadium	ppm	● 0	● 0	● 0	● 0



ADDITIVES

Calcium	ppm	● 12	● 3	● 10	● 5
Magnesium	ppm	● <1	● <1	● <1	● <1
Zinc	ppm	● 18	● 6	● 7	● 10
Phosphorus	ppm	● 2407	● 2456	● 2522	● 2508
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● 0	● 1	● <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.

Depot: MANSEL
Unique No: 5643666
Signed: Wes Davis
Report Date: 14 Sep 2023



GRAPHS

