

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Front Differential

Sample No: LH0288162

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0288162	LH0278597	LH0278519	LH
Sample Date	25 Apr 2024	21 Feb 2024	22 Dec 2023	15 Sep 2023
Machine Hours	9033	8026	7142	0
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	181	193	183	183



Contamination

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



Wear Metals

Iron	ppm	24	33	38	20
Copper	ppm	5	5	4	6
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	<1	<1	0
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	2	2	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	2	5	4	10
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	3	5	6	12
Phosphorus	ppm	2284	2311	2314	2188
Barium	ppm	0	0	0	<1
Boron	ppm	4	<1	2	6

Depot: MANSEL
Unique No: 5774441
Signed: Wes Davis
Report Date: 03 May 2024



Graphs

