

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 058671-1334 - Splitter Box

Sample No: LH0278540

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0278540	LH0278557	LH0266011	LH0150832
Sample Date	01 Dec 2023	01 Nov 2023	04 Jun 2023	16 Dec 2022
Machine Hours	7378	7174	6000	5000
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

1 Terracon Place

Winnipeg, MB

CA R2J 4B3

Contact: Joel Malkoske

Jmalkoske@glacialagg.ca

T: (204)663-0064

F:



#### OIL CONDITION

Visc @ 40°C	cSt	143	124	130	112
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	38	1	2
Sodium	ppm	<1	1	2	2
Potassium	ppm	0	0	<1	<1



#### WEAR METALS

PQ		11	7	---	---
Iron	ppm	597	1202	13	22
Copper	ppm	5	2	2	4
Lead	ppm	1	<1	1	3
Tin	ppm	0	0	0	0
Aluminum	ppm	2	6	<1	<1
Chromium	ppm	4	9	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	3	4	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	20	82	132	264
Magnesium	ppm	8	5	4	4
Zinc	ppm	660	137	130	175
Phosphorus	ppm	1876	658	1966	1888
Barium	ppm	0	0	0	0
Boron	ppm	1	3	3	11

#### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. Gear wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: BIRWIN

Unique No: 5696377

Signed: Kevin Marson

Report Date: 15 Dec 2023

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### GRAPHS

