

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(363880)] LIEBHERR L550 064917-1756 -Rear Differential

Sample No: LH0279052

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0279052	LH0261009	LH0250801	LH0235315
Sample Date	22 Jan 2024	15 Jun 2023	03 Feb 2023	14 Sep 2022
Machine Hours	5982	4922	4136	3114
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

**ARMAND DUHAMEL et FILS INC.**  
 778 RUE DE L' EGLISE  
 ST-IGNACE-STANDBRIDGE, QC  
 CA J0J 1Y0  
 Contact:



#### OIL CONDITION

Visc @ 40°C	cSt	180	192	187	176
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	4	6	8
Sodium	ppm	<1	<1	2	3
Potassium	ppm	<1	0	0	0

#### Diagnosis

We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. Bearing and/or bushing wear is indicated. Gear wear is indicated. 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.



#### WEAR METALS

Iron	ppm	86	65	146	121
Copper	ppm	26	36	62	98
Lead	ppm	<1	<1	1	2
Tin	ppm	2	3	3	4
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	1	1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	2	5	7
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	4	4	2	26
Magnesium	ppm	<1	<1	0	1
Zinc	ppm	14	15	15	41
Phosphorus	ppm	2294	2378	2477	2379
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	1	3

Depot: ARMSTI  
 Unique No: 5720758  
 Signed: Bill Quesnel  
 Report Date: 30 Jan 2024



### GRAPHS

