

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(363880)] LIEBHERR L550 064917-1756 - Front Left Wheel H

Sample No: LH0279046

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0279046	LH0261041	LH0238873	LH0235313
Sample Date	23 Jan 2024	15 Jun 2023	10 Nov 2022	14 Sep 2022
Machine Hours	5982	4922	3599	3114
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

**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	190	186	175
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	5	3	9
Sodium	ppm	<1	<1	1	2
Potassium	ppm	<1	<1	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	91	88	57	176
Copper	ppm	31	44	34	140
Lead	ppm	<1	1	1	4
Tin	ppm	2	3	1	4
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	1	1	<1	3
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	1	2	2	7
Vanadium	ppm	0	0	0	<1



#### ADDITIVES

Calcium	ppm	4	5	4	22
Magnesium	ppm	<1	<1	0	2
Zinc	ppm	14	17	10	47
Phosphorus	ppm	2328	2362	2407	2351
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	5

Depot: ARMSTI  
 Unique No: 5720761  
 Signed: Bill Quesnel  
 Report Date: 30 Jan 2024



### GRAPHS

