

LIEBHERR

CONSTRUCTION EQUIPMENT



[(363880)] LIEBHERR L550 064917-1756 - Front Differential

Sample No: LH0279047

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0279047	LH0261011	LH0250797	LH0238885
Sample Date	22 Jan 2024	15 Jun 2023	03 Feb 2023	09 Nov 2022
Machine Hours	5982	4922	4136	3587
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
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	179	190	186	186

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	5	7	3
Sodium	ppm	<1	<1	3	<1
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. 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	90	65	156	54
Copper	ppm	32	40	73	33
Lead	ppm	<1	<1	2	2
Tin	ppm	2	3	3	1
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	1	1	2	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	1	4	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	4	4	2	10
Magnesium	ppm	<1	<1	0	<1
Zinc	ppm	15	16	16	12
Phosphorus	ppm	2324	2358	2455	2393
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	2	1

Depot: ARMSTI
 Unique No: 5720756
 Signed: Bill Quesnel
 Report Date: 30 Jan 2024



GRAPHS

