

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L538P 046205-1559 - Front Left Wheel Hub

Sample No: LH0271478

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0271478	LH	LH0167973	LH0137155
Sample Date	25 Jul 2023	07 Apr 2021	22 Aug 2020	07 May 2019
Machine Hours	5955	0	3000	1039
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

LES INDUSTRIES MAIBEC INC.

340 ROUTE 173  
ST-THEOPHILLE, QC  
CA G0M 2A0

Contact: Yvan Bisson  
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F:



#### OIL CONDITION

Visc @ 40°C	cSt	92.0	90.5	92.0	189
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#### CONTAMINATION

Silicon	ppm	10	2	4	10
Sodium	ppm	1	<1	1	5
Potassium	ppm	0	<1	1	<1



#### WEAR METALS

Iron	ppm	100	26	189	120
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	<1	<1	2	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	1	<1	4	7
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	13	16	46	44
Magnesium	ppm	1	9	28	1
Zinc	ppm	19	17	50	41
Phosphorus	ppm	2241	1630	2055	2331
Barium	ppm	<1	0	<1	1
Boron	ppm	298	303	250	2

#### 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. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: LESSTT  
Unique No: 5618298  
Signed: Wes Davis  
Report Date: 31 Jul 2023



### GRAPHS

