

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538P 046205-1559 - Rear Right Wheel Hub

Sample No: LH0265427

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0265427	LH	LH0167974	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	Changed	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	79.7	96.4	94.2	189
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CONTAMINATION

Silicon	ppm	4	2	5	14
Sodium	ppm	1	<1	<1	5
Potassium	ppm	<1	<1	2	3



WEAR METALS

Iron	ppm	22	31	65	67
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	13	9	28	71
Magnesium	ppm	2	2	10	1
Zinc	ppm	18	8	22	31
Phosphorus	ppm	6672	1773	2044	2317
Barium	ppm	0	0	<1	1
Boron	ppm	251	287	266	5

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 80 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: LESSTT

Unique No: 5618299

Signed: Kevin Marson

Report Date: 31 Jul 2023



GRAPHS

