

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538P 046205-1559 - Rear Differential

Sample No: LH0271480

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0271480	LH0234724	LH	LH0167977
Sample Date	25 Jul 2023	28 Jul 2022	07 Apr 2021	22 Aug 2020
Machine Hours	5955	5088	0	3000
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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	95.0	98.5	117	91.3
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CONTAMINATION

Silicon	ppm	4	2	2	4
Sodium	ppm	1	<1	2	6
Potassium	ppm	<1	<1	<1	4



WEAR METALS

Iron	ppm	57	26	97	115
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	13	7	8	10
Magnesium	ppm	2	2	2	2
Zinc	ppm	20	7	9	10
Phosphorus	ppm	3413	2229	3448	3523
Barium	ppm	0	0	0	0
Boron	ppm	290	237	177	286

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: 5618300

Signed: Kevin Marson

Report Date: 31 Jul 2023



GRAPHS

