

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 73936 - Front Axle

Sample No: LH0278693

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0278693	LH0277487	---	---
Sample Date	03 Mar 2024	23 Oct 2023	---	---
Machine Hours	2179	1007	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

LIEBHERR CANADA LTD.

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OIL CONDITION

Visc @ 40°C	cSt	109	● 194	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 9	● 28	---	---
Sodium	ppm	● 2	● 6	---	---
Potassium	ppm	● <1	● <1	---	---



WEAR METALS

Iron	ppm	● 215	● 462	---	---
Copper	ppm	● 100	● 220	---	---
Lead	ppm	● 3	● 5	---	---
Tin	ppm	● 5	● 11	---	---
Aluminum	ppm	● 1	● 2	---	---
Chromium	ppm	● 1	● 4	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● 2	● 5	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	● 10	35	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 9	● 8	---	---
Magnesium	ppm	● 2	● 4	---	---
Zinc	ppm	● 31	● 51	---	---
Phosphorus	ppm	● 2629	● 2359	---	---
Barium	ppm	● <1	● 1	---	---
Boron	ppm	● 205	● 4	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIEMIS
Unique No: 5736765
Signed: Kevin Marson
Report Date: 04 Mar 2024



GRAPHS

