

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 73936 - Rear Axle

Sample No: LH0278694

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0278694	LH0277488	---	---
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.

1015 SUTTON DRIVE
BURLINGTON, ON
CA L7L 5Z8

Contact: Steve Lehto
steve.lehto@liebherr.com
T: (905)319-9222
F: (905)319-6617



OIL CONDITION

Visc @ 40°C	cSt	106	194	---	---
-------------	-----	-----	-----	-----	-----



CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	8	31	---	---
Sodium	ppm	2	8	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	175	467	---	---
Copper	ppm	89	229	---	---
Lead	ppm	2	6	---	---
Tin	ppm	5	13	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	<1	3	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	2	6	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	8	37	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	8	6	---	---
Magnesium	ppm	2	4	---	---
Zinc	ppm	26	49	---	---
Phosphorus	ppm	2591	2461	---	---
Barium	ppm	<1	1	---	---
Boron	ppm	221	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 75W90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIEMIS
Unique No: 5736766
Signed: Kevin Marson
Report Date: 04 Mar 2024



GRAPHS

