

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 73992 - Front Differential

Sample No: LH0270206

Oil Type: GEAR OIL LS 80W90



SAMPLE INFORMATION

Sample Number	LH0270206	---	---	---
Sample Date	03 Mar 2024	---	---	---
Machine Hours	2090	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
 Contact: Joseph Rodgers
 joseph.rodgers@liebherr.com
 T:
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OIL CONDITION

Visc @ 40°C	cSt	● 124	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 13	---	---	---
Sodium	ppm	● 5	---	---	---
Potassium	ppm	● 2	---	---	---



WEAR METALS

Iron	ppm	● 297	---	---	---
Copper	ppm	● 110	---	---	---
Lead	ppm	● 3	---	---	---
Tin	ppm	● 7	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 19	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 11	---	---	---
Magnesium	ppm	● 2	---	---	---
Zinc	ppm	● 30	---	---	---
Phosphorus	ppm	● 2884	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 155	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm. Copper ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIEMIS
 Unique No: 5736760
 Signed: Kevin Marson
 Report Date: 04 Mar 2024



GRAPHS

