

LIEBHERR

CONSTRUCTION EQUIPMENT



[WILLIS KERR] LIEBHERR L586 59553 - Rear Differential

Sample No: LH0173449

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0173449	---	---	---
Sample Date	20 Jul 2023	---	---	---
Machine Hours	4002	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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

Visc @ 40°C	cSt	91.2	---	---	---
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CONTAMINATION

Silicon	ppm	3	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	0	---	---	---



WEAR METALS

Iron	ppm	47	---	---	---
Copper	ppm	24	---	---	---
Lead	ppm	3	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	12	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	24	---	---	---
Phosphorus	ppm	2645	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	303	---	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
 Unique No: 5616770
 Signed: Kevin Marson
 Report Date: 24 Jul 2023



GRAPHS

