

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A922134416-1509 - Rear Right Wheel Hub

Sample No: LH0247003

Oil Type: LIEBHERR GEAR BASIC 90 LS



ACCURATE RAILROAD CONSTRUCTION LTD
130 HEALEY RD. 8
CALEDON-BOLTON, ON
CA L7E 5B3
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0247003	LH0256867	---	---
Sample Date	28 Jul 2023	10 Mar 2023	---	---
Machine Hours	1194	730	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	107	168	---	---
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T:
F:



CONTAMINATION

Silicon	ppm	7	13	---	---
Sodium	ppm	2	6	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	19	70	---	---
Copper	ppm	6	13	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	8	8	---	---
Magnesium	ppm	2	2	---	---
Zinc	ppm	20	25	---	---
Phosphorus	ppm	1317	1198	---	---
Barium	ppm	45	337	---	---
Boron	ppm	276	5	---	---

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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: ACC130CAL
Unique No: 5630838
Signed: Wes Davis
Report Date: 23 Aug 2023



GRAPHS

