



# CONSTRUCTION EQUIPMENT - REAR AXLE



**Sample No:** VCP437578  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



## SAMPLE INFORMATION

Sample Number	VCP437578	VCP395762	---	---
Sample Date	06 Jun 2024	08 Mar 2023	---	---
Machine Hours	4000	2203	---	---
Oil Hours	0	1000	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	● 49.5	49.2	---	---
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## CONTAMINATION

Water	%	▲ 0.324	NEG	---	---
Silicon	ppm	▲ 75	■ 4	---	---
Sodium	ppm	■ 3	■ 3	---	---
Potassium	ppm	■ 9	■ 3	---	---

## WEAR METALS

Iron	ppm	■ 659	■ 201	---	---
Copper	ppm	■ 22	■ 2	---	---
Lead	ppm	■ 4	■ 0	---	---
Tin	ppm	■ 2	■ 0	---	---
Aluminum	ppm	● 17	■ <1	---	---
Chromium	ppm	■ 6	■ 2	---	---
Molybdenum	ppm	■ 8	■ 5	---	---
Nickel	ppm	■ 3	■ <1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 15	■ 10	---	---
Vanadium	ppm	0	0	---	---

## ADDITIVES

Calcium	ppm	■ 236	■ 20	---	---
Magnesium	ppm	■ 41	■ 0	---	---
Zinc	ppm	■ 64	■ 12	---	---
Phosphorus	ppm	2124	2345	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 88	■ 115	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. Confirm oil type.

**Depot:** VOLVO0090  
**Unique No:** 11074373  
**Signed:** Don Baldrige  
**Report Date:** 13 Jun 2024



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## GRAPHS

