



# CONSTRUCTION EQUIPMENT

W07013 VOLVO A40G 340455 - FRONT AXLE



**Sample No:** VCP415415  
**Oil Type:** GEAR OIL SAE 75W90  
**Job No:** W07013



## SAMPLE INFORMATION

Sample Number	VCP415415	---	---	---
Sample Date	20 Sep 2023	---	---	---
Machine Hours	5148	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**McClung-Logan Virginia LLC- RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@MCCLUNG-LOGAN.COM  
 T:  
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## OIL CONDITION

Visc @ 40°C	cSt	▲ 334	---	---	---
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## CONTAMINATION

Silicon	ppm	▲ 90	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ 2	---	---	---



## WEAR METALS

Iron	ppm	■ 134	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 23	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 16	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	■ 72	---	---	---
Magnesium	ppm	■ 6	---	---	---
Zinc	ppm	■ 24	---	---	---
Phosphorus	ppm	■ 459	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 24	---	---	---

## 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. Confirm oil type.

**Depot:** VOLVO8882  
**Unique No:** 10661398  
**Signed:** Don Baldrige  
**Report Date:** 26 Sep 2023



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## GRAPHS

