



# CONSTRUCTION EQUIPMENT

661614 RYAN GOLF VOLVO A40G 352296 - DIESEL ENGINE



**Sample No:** VCP452451  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 661614 RYAN GOLF



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## SAMPLE INFORMATION

Sample Number	VCP452451	---	---	---
Sample Date	30 Jan 2024	---	---	---
Machine Hours	1202	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	● 10.9	---	---	---
Base Number (BN)	mg KOH/g	■ 5.1	---	---	---
Oxidation (PA)	%	68	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	▲ 41	---	---	---
Sodium	ppm	■ 13	---	---	---
Potassium	ppm	■ 7	---	---	---



## WEAR METALS

Iron	ppm	■ 57	---	---	---
Copper	ppm	■ 159	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 7	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 91	---	---	---
Nickel	ppm	▲ 34	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 7	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	■ 2322	---	---	---
Magnesium	ppm	■ 484	---	---	---
Zinc	ppm	1542	---	---	---
Phosphorus	ppm	■ 1135	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 16	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Valve wear is indicated. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 10900909  
**Signed:** Jonathan Hester  
**Report Date:** 04 Mar 2024



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## GRAPHS

