



# CONSTRUCTION EQUIPMENT

RYAN GOLF VOLVO A40G 353294 - DIESEL ENGINE



**Sample No:** VCP432467  
**Oil Type:** NOT GIVEN  
**Job No:** RYAN GOLF



## SAMPLE INFORMATION

Sample Number	VCP432467	---	---	---
Sample Date	16 Oct 2023	---	---	---
Machine Hours	1215	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 10.6	---	---	---
Base Number (BN)	mg KOH/g	█ 3.3	---	---	---
Oxidation (PA)	%	77	---	---	---



## CONTAMINATION

Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	69	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 0.8	---	---	---
Silicon	ppm	▲ 26	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 5	---	---	---



## WEAR METALS

Iron	ppm	█ 28	---	---	---
Copper	ppm	▲ 148	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 57	---	---	---
Nickel	ppm	█ 7	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1200	---	---	---
Magnesium	ppm	█ 261	---	---	---
Zinc	ppm	█ 1008	---	---	---
Phosphorus	ppm	█ 895	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 7	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** VOLVO0093  
**Unique No:** 10723676  
**Signed:** Don Baldrige  
**Report Date:** 03 Nov 2023



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## GRAPHS

