



# CONSTRUCTION EQUIPMENT

593956 RYAN GOLF VOLVO A40G 342263 - DIESEL ENGINE



**Sample No:** VCP427411  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 593956 RYAN GOLF



## SAMPLE INFORMATION

Sample Number	<b>VCP427411</b>	VCP337400	VCP301451	VCP245181
Sample Date	<b>24 Aug 2023</b>	17 Aug 2021	04 Feb 2021	10 Mar 2020
Machine Hours	<b>5664</b>	3541	3481	3434
Oil Hours	<b>500</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.7	12.8	12.9
Base Number (BN)	mg KOH/g	<b>9.2</b>	---	---	---
Oxidation (PA)	%	<b>78</b>	79	75	66

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



## CONTAMINATION

Soot %	%	<b>0.3</b>	0.1	0.1	0.3
Nitration (PA)	%	<b>72</b>	55	51	70
Sulfation (PA)	%	<b>59</b>	62	59	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.6</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	8	7
Sodium	ppm	<b>2</b>	4	3	2
Potassium	ppm	<b>0</b>	<1	13	2



## WEAR METALS

Iron	ppm	<b>9</b>	13	7	8
Copper	ppm	<b>3</b>	14	4	8
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>7</b>	2	3	4
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>50</b>	37	32	20
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1751</b>	1785	1608	1471
Magnesium	ppm	<b>554</b>	583	549	614
Zinc	ppm	<b>1140</b>	1062	958	830
Phosphorus	ppm	<b>938</b>	995	897	756
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>23</b>	86	63	38

**Depot:** VOLVO0093  
**Unique No:** 10668488  
**Signed:** Wes Davis  
**Report Date:** 28 Sep 2023



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## VOLVO GRAPHS

