



# CONSTRUCTION EQUIPMENT

## 593983 RYAN GOLF VOLVO L120H 342685 - DIESEL ENGINE



**Sample No:** VCP417647  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 593983 RYAN GOLF



### SAMPLE INFORMATION

Sample Number	<b>VCP417647</b>	VCP409292	VCP326459	VCP327481
Sample Date	<b>11 Aug 2023</b>	11 Feb 2023	04 Oct 2021	27 Sep 2021
Machine Hours	<b>4733</b>	3846	2540	6195
Oil Hours	<b>500</b>	500	1500	1500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	13.0	12.8	13.1
Base Number (BN)	mg KOH/g	<b>8.3</b>	8.4	---	---
Oxidation (PA)	%	<b>77</b>	83	83	76

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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>0.9</b>	0.8	0.4	0.3
Nitration (PA)	%	<b>74</b>	83	67	58
Sulfation (PA)	%	<b>61</b>	63	64	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	7	6	5
Sodium	ppm	<b>4</b>	4	3	3
Potassium	ppm	<b>0</b>	0	0	0



### WEAR METALS

Iron	ppm	<b>17</b>	20	10	6
Copper	ppm	<b>6</b>	9	9	1
Lead	ppm	<b>2</b>	3	<1	<1
Tin	ppm	<b>1</b>	2	0	0
Aluminum	ppm	<b>4</b>	4	2	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>50</b>	48	50	42
Nickel	ppm	<b>2</b>	3	1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1803</b>	1650	1692	1722
Magnesium	ppm	<b>534</b>	501	494	438
Zinc	ppm	<b>1148</b>	1093	963	1022
Phosphorus	ppm	<b>940</b>	875	858	906
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>20</b>	18	25	40

**Depot:** VOLVO0093  
**Unique No:** 10619898  
**Signed:** Wes Davis  
**Report Date:** 28 Aug 2023



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## GRAPHS

