



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352441 - DIESEL ENGINE



**Sample No:** VCP412291  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP412291</b>	VCP411084	VCP331532	VCP344715
Sample Date	<b>16 Aug 2023</b>	05 Jun 2023	13 Jan 2022	20 Oct 2021
Machine Hours	<b>6804</b>	6447	3961	3406
Oil Hours	<b>0</b>	0	0	0
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>11.9</b>	12.2	12.6	12.8
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.4	11.2	---
Oxidation (PA)	%	<b>76</b>	76	86	79

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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>0.1</b>	0.1	0.3	0.2
Nitration (PA)	%	<b>53</b>	51	65	60
Sulfation (PA)	%	<b>58</b>	59	65	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.7</b>	1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	5	5
Sodium	ppm	<b>2</b>	<1	2	2
Potassium	ppm	<b>0</b>	1	<1	0



### WEAR METALS

Iron	ppm	<b>4</b>	4	4	4
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	0	1	1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>69</b>	48	46	37
Nickel	ppm	<b>&lt;1</b>	<1	2	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1711</b>	1613	1694	1675
Magnesium	ppm	<b>532</b>	493	504	434
Zinc	ppm	<b>1085</b>	1077	1150	1061
Phosphorus	ppm	<b>908</b>	902	937	884
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>59</b>	54	44	37

**Depot:** VOLVO0090  
**Unique No:** 10615925  
**Signed:** Wes Davis  
**Report Date:** 23 Aug 2023



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## VOLVO GRAPHS

