



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352692 - DIESEL ENGINE



**Sample No:** VCP387142  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP387142</b>	VCP354225	VCP310035	---
Sample Date	<b>11 Oct 2023</b>	09 Jun 2022	21 Jul 2021	---
Machine Hours	<b>4747</b>	2454	640	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	MARGINAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.6	▲ 10.7	---
Base Number (BN)	mg KOH/g	<b>6.9</b>	6.6	---	---
Oxidation (PA)	%	<b>80</b>	89	92	---



### CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.2	---
Nitration (PA)	%	<b>81</b>	98	75	---
Sulfation (PA)	%	<b>60</b>	69	69	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	1.2	---
Silicon	ppm	<b>7</b>	6	26	---
Sodium	ppm	<b>3</b>	2	3	---
Potassium	ppm	<b>2</b>	0	3	---

### 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.



### WEAR METALS

Iron	ppm	<b>11</b>	12	21	---
Copper	ppm	<b>8</b>	▲ 58	▲ 127	---
Lead	ppm	<b>1</b>	2	2	---
Tin	ppm	<b>1</b>	3	4	---
Aluminum	ppm	<b>4</b>	2	2	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>51</b>	44	41	---
Nickel	ppm	<b>4</b>	5	2	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	3	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1676</b>	1631	1601	---
Magnesium	ppm	<b>522</b>	399	470	---
Zinc	ppm	<b>1114</b>	973	1089	---
Phosphorus	ppm	<b>906</b>	724	911	---
Barium	ppm	<b>12</b>	0	0	---
Boron	ppm	<b>15</b>	13	32	---

**Depot:** VOLVO0090  
**Unique No:** 10695913  
**Signed:** Wes Davis  
**Report Date:** 16 Oct 2023



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## GRAPHS

