



# CONSTRUCTION EQUIPMENT

## 25792 VOLVO A40G-WT 352024 - DIESEL ENGINE



**Sample No:** VCP447690  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 25792



### SAMPLE INFORMATION

Sample Number	<b>VCP447690</b>	VCP418478	VCP399949	VCP345781
Sample Date	<b>06 May 2024</b>	01 Nov 2023	30 Mar 2023	12 Apr 2022
Machine Hours	<b>5544</b>	5034	4285	3148
Oil Hours	<b>0</b>	1000	1000	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.2	12.3	13.7
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.1	8.1	12.0
Oxidation (PA)	%	<b>78</b>	77	83	80

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.2	0.2	0
Nitration (PA)	%	<b>63</b>	71	88	42
Sulfation (PA)	%	<b>59</b>	58	61	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	1.8	<1.0
Silicon	ppm	<b>4</b>	5	6	10
Sodium	ppm	<b>2</b>	2	2	1
Potassium	ppm	<b>2</b>	0	1	<1

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### WEAR METALS

Iron	ppm	<b>7</b>	8	13	2
Copper	ppm	<b>&lt;1</b>	<1	2	<1
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>2</b>	2	2	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	41	45	43
Nickel	ppm	<b>&lt;1</b>	2	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1874</b>	1780	1645	1712
Magnesium	ppm	<b>531</b>	563	479	547
Zinc	ppm	<b>1131</b>	1224	1078	1106
Phosphorus	ppm	<b>979</b>	965	876	950
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>56</b>	41	30	69

**Depot:** VOLVO3387  
**Unique No:** 11074841  
**Signed:** Sean Felton  
**Report Date:** 14 Jun 2024



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## GRAPHS

