



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352676 - DIESEL ENGINE



**Sample No:** VCP446671  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP446671</b>	VCP439024	VCP412500	VCP353643
Sample Date	<b>16 May 2024</b>	12 Dec 2023	05 Sep 2023	08 Jun 2022
Machine Hours	<b>5639</b>	4858	4379	2274
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.4	▲ 11.3	12.6
Base Number (BN)	mg KOH/g	<b>8.2</b>	9.8	6.4	6.6
Oxidation (PA)	%	<b>71</b>	77	63	89

### 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 acceptable for the time in service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.2	0.3	0.3
Nitration (PA)	%	<b>73</b>	59	78	98
Sulfation (PA)	%	<b>58</b>	60	57	69
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	0.4	▲ 2.9	<1.0
Silicon	ppm	<b>4</b>	4	4	6
Sodium	ppm	<b>&lt;1</b>	2	9	2
Potassium	ppm	<b>2</b>	1	10	0



### WEAR METALS

Iron	ppm	<b>7</b>	3	9	12
Copper	ppm	<b>15</b>	2	13	▲ 57
Lead	ppm	<b>2</b>	<1	2	2
Tin	ppm	<b>2</b>	<1	2	3
Aluminum	ppm	<b>2</b>	2	3	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>60</b>	50	54	44
Nickel	ppm	<b>2</b>	2	2	5
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1253</b>	1551	1665	1623
Magnesium	ppm	<b>785</b>	526	701	407
Zinc	ppm	<b>1181</b>	1085	1126	979
Phosphorus	ppm	<b>1013</b>	917	838	729
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>12</b>	41	24	14

**Depot:** VOLVO0090  
**Unique No:** 11035305  
**Signed:** Sean Felton  
**Report Date:** 21 May 2024



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## GRAPHS

