



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 353024 - DIESEL ENGINE



**Sample No:** VCP436747  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP436747</b>	VCP422308	VCP426716	VCP416711
Sample Date	<b>10 Apr 2024</b>	30 Nov 2023	29 Aug 2023	06 Jun 2023
Machine Hours	<b>4310</b>	3568	2996	2513
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>12.0</b>	12.3	12.2	12.6
Base Number (BN)	mg KOH/g	<b>8.5</b>	9.4	9.8	8.4
Oxidation (PA)	%	<b>82</b>	81	80	85



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>72</b>	64	62	78
Sulfation (PA)	%	<b>60</b>	60	61	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.3	<1.0
Silicon	ppm	<b>6</b>	6	5	6
Sodium	ppm	<b>&lt;1</b>	2	3	<1
Potassium	ppm	<b>1</b>	3	0	2



### WEAR METALS

Iron	ppm	<b>6</b>	4	5	8
Copper	ppm	<b>7</b>	5	10	23
Lead	ppm	<b>1</b>	1	0	<1
Tin	ppm	<b>1</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	1	1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>48</b>	48	72	46
Nickel	ppm	<b>4</b>	2	<1	3
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1848</b>	1683	1787	1664
Magnesium	ppm	<b>533</b>	550	557	481
Zinc	ppm	<b>1192</b>	1143	1158	1100
Phosphorus	ppm	<b>1044</b>	935	956	898
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>26</b>	28	39	19

### 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.

**Depot:** VOLVO0090  
**Unique No:** 10978443  
**Signed:** Sean Felton  
**Report Date:** 17 Apr 2024



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## GRAPHS

