



# CONSTRUCTION EQUIPMENT

## 579670 PRIMERIS ENER VOLVO A40G 352509 - DIESEL ENGINE



**Sample No:** VCP425807  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 579670 PRIMERIS ENER



### SAMPLE INFORMATION

Sample Number	<b>VCP425807</b>	VCP398023	VCP392900	VCP365218
Sample Date	<b>13 Jul 2023</b>	25 Apr 2023	06 Dec 2022	16 Aug 2022
Machine Hours	<b>4873</b>	4282	3689	3145
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.8	12.9	13.5
Base Number (BN)	mg KOH/g	<b>8.9</b>	9.0	10.3	8.6
Oxidation (PA)	%	<b>81</b>	84	85	57

### 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.



### CONTAMINATION

Soot %	%	<b>0.3</b>	0.4	0.3	0.3
Nitration (PA)	%	<b>78</b>	83	77	69
Sulfation (PA)	%	<b>60</b>	62	65	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	3	4
Sodium	ppm	<b>2</b>	0	0	<1
Potassium	ppm	<b>&lt;1</b>	1	1	<1



### WEAR METALS

Iron	ppm	<b>8</b>	7	7	8
Copper	ppm	<b>1</b>	2	2	7
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>1</b>	1	<1	0
Aluminum	ppm	<b>1</b>	1	2	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	55	42	25
Nickel	ppm	<b>2</b>	4	2	2
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1795</b>	1735	1710	1693
Magnesium	ppm	<b>529</b>	504	482	314
Zinc	ppm	<b>1166</b>	1148	1075	987
Phosphorus	ppm	<b>957</b>	953	897	827
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>21</b>	22	27	23

**Depot:** VOLVO0093  
**Unique No:** 10564319  
**Signed:** Wes Davis  
**Report Date:** 20 Jul 2023



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## GRAPHS

