



# CONSTRUCTION EQUIPMENT

## 717807 VOLVO A40G 341228 - DIESEL ENGINE



**Sample No:** VCP447778  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 717807



### SAMPLE INFORMATION

Sample Number	<b>VCP447778</b>	VCP396906	VCP384826	VCP373398
Sample Date	<b>04 Jun 2024</b>	29 Dec 2022	04 Sep 2022	25 Jul 2022
Machine Hours	<b>11401</b>	9883	9463	4984
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.6	12.3	12.66
Base Number (BN)	mg KOH/g	<b>4.9</b>	9.3	10.1	10.2
Oxidation (PA)	%	<b>81</b>	57	65	64

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.1	0.2	0.1
Nitration (PA)	%	<b>99</b>	63	73	62
Sulfation (PA)	%	<b>66</b>	50	57	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>2.1</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	3	3
Sodium	ppm	<b>6</b>	<1	0	2
Potassium	ppm	<b>&lt;1</b>	2	2	<1

### WEAR METALS

Iron	ppm	<b>16</b>	4	4	4
Copper	ppm	<b>37</b>	<1	<1	1
Lead	ppm	<b>2</b>	2	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	0	0
Molybdenum	ppm	<b>50</b>	61	58	58
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1158</b>	1208	1135	1107
Magnesium	ppm	<b>794</b>	1049	899	897
Zinc	ppm	<b>1073</b>	1393	1221	1225
Phosphorus	ppm	<b>836</b>	1103	1020	1011
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>6</b>	2	6	6

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Fuel content negligible. 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.

**Depot:** BLADET  
**Unique No:** 11087220  
**Signed:** Don Baldrige  
**Report Date:** 21 Jun 2024



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## VOLVO GRAPHS

