



# CONSTRUCTION EQUIPMENT

## 595224 VOLVO A40G 352787 - DIESEL ENGINE



**Sample No:** VCP416194  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 595224



### SAMPLE INFORMATION

Sample Number	<b>VCP416194</b>	VCP386098	VCP297932	VCP336750
Sample Date	<b>28 Aug 2023</b>	13 Sep 2022	30 Jun 2022	06 Apr 2022
Machine Hours	<b>4246</b>	2439	1962	1449
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	13.2	13.1	12.9
Base Number (BN)	mg KOH/g	<b>9.0</b>	11.2	10.9	10.9
Oxidation (PA)	%	<b>86</b>	88	83	83

### 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>	0.3	0.3	0.3
Nitration (PA)	%	<b>78</b>	71	72	69
Sulfation (PA)	%	<b>63</b>	66	65	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	4	4
Sodium	ppm	<b>2</b>	1	<1	3
Potassium	ppm	<b>0</b>	1	2	0



### WEAR METALS

Iron	ppm	<b>7</b>	5	6	6
Copper	ppm	<b>4</b>	1	4	2
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>1</b>	<1	1	1
Aluminum	ppm	<b>4</b>	0	2	1
Chromium	ppm	<b>0</b>	<1	0	0
Molybdenum	ppm	<b>42</b>	42	47	45
Nickel	ppm	<b>1</b>	0	0	0
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>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1768</b>	1722	1604	1640
Magnesium	ppm	<b>538</b>	494	595	610
Zinc	ppm	<b>1177</b>	1123	1179	1095
Phosphorus	ppm	<b>949</b>	943	992	979
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>17</b>	32	31	37

**Depot:** RIPTAM  
**Unique No:** 10668486  
**Signed:** Jonathan Hester  
**Report Date:** 28 Sep 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

