



# CONSTRUCTION EQUIPMENT

## 553239 STATEWIDE MAT VOLVO A40G 341163 - DIESEL ENGINE



**Sample No:** VCP422079  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 553239 STATEWIDE MAT



### SAMPLE INFORMATION

Sample Number	<b>VCP422079</b>	VCP386639	VCP314064	VCP252391
Sample Date	<b>09 May 2023</b>	18 Nov 2022	24 May 2021	12 Nov 2019
Machine Hours	<b>8920</b>	8505	7387	5222
Oil Hours	<b>0</b>	500	0	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
 9601 BOGGY CREEK RD  
 ORLANDO, FL  
 US 32824  
 Contact: Robert LaPlante  
 robert.laplante@altg.com  
 T: (407)508-9736  
 F: (407)659-8720



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.6	14.3	12.9
Base Number (BN)	mg KOH/g	<b>9.8</b>	10.7	---	---
Oxidation (PA)	%	<b>82</b>	89	108	94

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.3	0.4	0.4
Nitration (PA)	%	<b>58</b>	75	98	83
Sulfation (PA)	%	<b>62</b>	67	80	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.5</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	7	5
Sodium	ppm	<b>3</b>	3	2	51
Potassium	ppm	<b>2</b>	0	<1	12



### WEAR METALS

Iron	ppm	<b>6</b>	8	18	12
Copper	ppm	<b>&lt;1</b>	<1	1	7
Lead	ppm	<b>1</b>	<1	4	1
Tin	ppm	<b>1</b>	<1	<1	0
Aluminum	ppm	<b>6</b>	4	5	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>71</b>	60	78	35
Nickel	ppm	<b>2</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1642</b>	1653	1875	1669
Magnesium	ppm	<b>545</b>	538	615	488
Zinc	ppm	<b>1172</b>	1170	1113	860
Phosphorus	ppm	<b>963</b>	919	947	695
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>61</b>	37	91	14

**Depot:** VOLVO0096  
**Unique No:** 10469393  
**Signed:** Wes Davis  
**Report Date:** 16 May 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

