



# CONSTRUCTION EQUIPMENT

701157 APTIM VOLVO A35G 340101 - DIESEL ENGINE



**Sample No:** VCP445546  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 701157 APTIM



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



## SAMPLE INFORMATION

Sample Number	<b>VCP445546</b>	VCP429897	VCP417588	VCP395759
Sample Date	<b>12 Apr 2024</b>	13 Nov 2023	24 May 2023	31 Jan 2023
Machine Hours	<b>9074</b>	8512	7984	7430
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



## OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.1	12.2	13.0
Base Number (BN)	mg KOH/g	<b>8.1</b>	9.2	9.4	8.1
Oxidation (PA)	%	<b>69</b>	77	83	88



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.5</b>	0.3	0.3	0.5
Nitration (PA)	%	<b>84</b>	63	64	90
Sulfation (PA)	%	<b>58</b>	60	61	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.8	<1.0
Silicon	ppm	<b>8</b>	12	6	9
Sodium	ppm	<b>2</b>	4	3	4
Potassium	ppm	<b>2</b>	1	0	1



## WEAR METALS

Iron	ppm	<b>10</b>	6	8	15
Copper	ppm	<b>1</b>	<1	6	2
Lead	ppm	<b>1</b>	<1	0	2
Tin	ppm	<b>&lt;1</b>	<1	<1	1
Aluminum	ppm	<b>6</b>	3	1	6
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>47</b>	40	44	45
Nickel	ppm	<b>&lt;1</b>	0	<1	2
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1515</b>	1485	1689	1780
Magnesium	ppm	<b>580</b>	507	502	512
Zinc	ppm	<b>1139</b>	1057	1082	1165
Phosphorus	ppm	<b>1049</b>	875	903	955
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>25</b>	25	33	13

## 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:** VOLVO0093  
**Unique No:** 11036738  
**Signed:** Wes Davis  
**Report Date:** 22 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

