



# CONSTRUCTION EQUIPMENT

## 24860 VOLVO A45G 342052 - DIESEL ENGINE



**Sample No:** VCP440942  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24860



### SAMPLE INFORMATION

Sample Number	<b>VCP440942</b>	VCP433650	---	---
Sample Date	<b>07 Feb 2024</b>	27 Sep 2023	---	---
Machine Hours	<b>7690</b>	7336	---	---
Oil Hours	<b>0</b>	500	---	---
Oil Changed	<b>N/A</b>	Not Changd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**218 - ASCENDUM MACHINERY INC - N. CHARLESTON**  
 7235 CROSS COUNTRY RD.  
 NORTH CHARLESTON, SC  
 US 29418  
 Contact: MATT MITCHAM  
 matt.mitcham@ascendummachinery.com  
 T:  
 F: (843)414-1129

### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.8	---	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	6.8	---	---
Oxidation (PA)	%	<b>75</b>	58	---	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.4</b>	0.4	---	---
Nitration (PA)	%	<b>62</b>	58	---	---
Sulfation (PA)	%	<b>60</b>	58	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>8</b>	9	---	---
Sodium	ppm	<b>2</b>	5	---	---
Potassium	ppm	<b>0</b>	4	---	---

### 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.

### WEAR METALS

Iron	ppm	<b>12</b>	11	---	---
Copper	ppm	<b>3</b>	17	---	---
Lead	ppm	<b>&lt;1</b>	2	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>4</b>	4	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>46</b>	100	---	---
Nickel	ppm	<b>&lt;1</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

### ADDITIVES

Calcium	ppm	<b>1596</b>	1555	---	---
Magnesium	ppm	<b>493</b>	497	---	---
Zinc	ppm	<b>1104</b>	1358	---	---
Phosphorus	ppm	<b>959</b>	1125	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>83</b>	488	---	---

**Depot:** VOLVO3387  
**Unique No:** 10873260  
**Signed:** Wes Davis  
**Report Date:** 13 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

