



# CONSTRUCTION EQUIPMENT

## 41831 VOLVO A30G 752235 - DIESEL ENGINE



**Sample No:** VCP447023  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 41831



### SAMPLE INFORMATION

Sample Number	<b>VCP447023</b>	VCP399224	VCP356368	---
Sample Date	<b>26 Apr 2024</b>	24 Feb 2023	26 May 2022	---
Machine Hours	<b>3067</b>	2264	1787	---
Oil Hours	<b>0</b>	500	0	---
Oil Changed	<b>Changed</b>	Changed	N/A	---
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	---

**215 - ASCENDUM MACHINERY INC - CAYCE**  
 2303 AIRPORT BLVD  
 CAYCE, SC  
 US 29033  
 Contact: ROBBY HERLONG  
 robby.herlong@ascendummachinery.com  
 T: (803)394-6783  
 F: (803)791-9920



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.2	10.8	---
Base Number (BN)	mg KOH/g	<b>7.7</b>	9.8	5.7	---
Oxidation (PA)	%	<b>78</b>	60	78	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.4</b>	0.1	0.9	---
Nitration (PA)	%	<b>73</b>	55	91	---
Sulfation (PA)	%	<b>62</b>	52	67	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.9	---
Silicon	ppm	<b>6</b>	9	30	---
Sodium	ppm	<b>1</b>	1	4	---
Potassium	ppm	<b>3</b>	5	3	---



### WEAR METALS

Iron	ppm	<b>20</b>	6	48	---
Copper	ppm	<b>38</b>	1	188	---
Lead	ppm	<b>&lt;1</b>	2	3	---
Tin	ppm	<b>1</b>	<1	6	---
Aluminum	ppm	<b>4</b>	1	3	---
Chromium	ppm	<b>&lt;1</b>	0	2	---
Molybdenum	ppm	<b>38</b>	61	64	---
Nickel	ppm	<b>2</b>	0	9	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	5	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1672</b>	1253	1389	---
Magnesium	ppm	<b>469</b>	831	863	---
Zinc	ppm	<b>1108</b>	1220	1106	---
Phosphorus	ppm	<b>948</b>	1072	921	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>42</b>	26	9	---

**Depot:** VOLVO0013  
**Unique No:** 11004810  
**Signed:** Don Baldrige  
**Report Date:** 01 May 2024



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## GRAPHS

