



# CONSTRUCTION EQUIPMENT

## 6408 VOLVO A30G 742549 - DIESEL ENGINE



**Sample No:** VCP422385  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 6408



### SAMPLE INFORMATION

Sample Number	<b>VCP422385</b>	VCP333003	VCP319758	---
Sample Date	<b>29 Mar 2023</b>	22 Jun 2022	25 Oct 2021	---
Machine Hours	<b>1547</b>	1038	505	---
Oil Hours	<b>0</b>	1000	505	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	SEVERE	---

**364 - ASCENDUM MACHINERY INC - MACON**  
 4807 HARRISON RD  
 MACON, GA  
 US 31206  
 Contact: HALIE BAKER  
 halie.baker@ascendummachinery.com  
 T:  
 F: (478)200-5859



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.5</b>	▲ 10.5	▲ 8.9	---
Base Number (BN)	mg KOH/g	<b>■ 10.1</b>	■ 9.0	---	---
Oxidation (PA)	%	<b>82</b>	83	58	---



### CONTAMINATION

Soot %	%	<b>■ 0.4</b>	■ 0.5	■ 0.3	---
Nitration (PA)	%	<b>70</b>	75	54	---
Sulfation (PA)	%	<b>63</b>	69	53	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>▲ 5.2</b>	▲ 7.7	● 10.5	---
Silicon	ppm	<b>■ 5</b>	■ 9	▲ 44	---
Sodium	ppm	<b>■ 3</b>	■ 0	■ 4	---
Potassium	ppm	<b>■ &lt;1</b>	■ 2	■ 4	---



### WEAR METALS

Iron	ppm	<b>■ 10</b>	■ 14	■ 27	---
Copper	ppm	<b>■ 13</b>	▲ 90	▲ 484	---
Lead	ppm	<b>■ 0</b>	■ <1	■ 14	---
Tin	ppm	<b>■ &lt;1</b>	■ 1	■ 3	---
Aluminum	ppm	<b>■ &lt;1</b>	■ 1	■ 2	---
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	---
Molybdenum	ppm	<b>■ 41</b>	■ 35	■ 3	---
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>■ 0</b>	<1	0	---
Manganese	ppm	<b>■ 0</b>	■ <1	■ 5	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>■ 1754</b>	■ 1521	■ 2065	---
Magnesium	ppm	<b>■ 496</b>	■ 383	33	---
Zinc	ppm	<b>■ 1135</b>	■ 1004	■ 1141	---
Phosphorus	ppm	<b>■ 938</b>	■ 836	■ 957	---
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 40</b>	■ 30	■ 2	---

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** ASCMAC  
**Unique No:** 10536794  
**Signed:** Wes Davis  
**Report Date:** 02 Jul 2023



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## GRAPHS

