



# CONSTRUCTION EQUIPMENT

## 6748 VOLVO A30G 742635 - DIESEL ENGINE



**Sample No:** VCP422896  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 6748



### SAMPLE INFORMATION

Sample Number	VCP422896	VCP395252	VCP388741	VCP319990
Sample Date	25 Jul 2023	14 Feb 2023	21 Sep 2022	28 Mar 2022
Machine Hours	3545	2975	2567	2018
Oil Hours	0	3000	2567	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

**364 - ASCENDUM MACHINERY INC - MACON**  
 4807 HARRISON RD  
 MACON, GA  
 US 31206  
 Contact: HALIE BAKER  
 halie.baker@ascendummachinery.com  
 T:  
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### OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.2	▲ 12.3	▲ 12.3
Base Number (BN)	mg KOH/g	■ 9.4	■ 10.3	■ 10.3	■ 10.6
Oxidation (PA)	%	■ 82	■ 79	■ 87	■ 86

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.4	■ 0.3	■ 0.4	■ 0.4
Nitration (PA)	%	■ 67	■ 62	■ 71	■ 70
Sulfation (PA)	%	■ 62	■ 62	■ 69	■ 68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 6	■ 5	■ 6
Sodium	ppm	■ 0	■ 2	■ 3	■ 2
Potassium	ppm	■ 2	■ 0	■ 0	■ 0

### 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.

### WEAR METALS

Iron	ppm	■ 12	■ 8	■ 10	■ 12
Copper	ppm	■ 1	■ 1	■ 3	■ 12
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ 1	■ <1	■ <1	■ 1
Aluminum	ppm	■ 1	■ 2	■ 2	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 40	■ 42	■ 38	■ 42
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	<1
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	■ 0	■ 0	■ 0	■ 0

### ADDITIVES

Calcium	ppm	■ 1639	■ 1673	■ 1621	■ 1751
Magnesium	ppm	■ 490	■ 494	■ 483	■ 544
Zinc	ppm	■ 1073	■ 1091	■ 1052	■ 1138
Phosphorus	ppm	■ 856	■ 895	■ 880	■ 995
Barium	ppm	■ 11	■ 0	■ 0	■ 0
Boron	ppm	■ 30	■ 40	■ 34	■ 38

**Depot:** ASCMAC  
**Unique No:** 10782852  
**Signed:** Don Baldrige  
**Report Date:** 15 Dec 2023



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## GRAPHS

