



# CONSTRUCTION EQUIPMENT

## 700408 VOLVO A30G 752362 - DIESEL ENGINE



**Sample No:** VCP443763  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 700408



### SAMPLE INFORMATION

Sample Number	<b>VCP443763</b>	VCP445989	VCP431416	VCP385482
Sample Date	<b>19 Apr 2024</b>	14 Feb 2024	11 Dec 2023	23 Sep 2022
Machine Hours	<b>3056</b>	2681	2093	1098
Oil Hours	<b>500</b>	581	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.3	12.2	12.7
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.5	10.0	10.8
Oxidation (PA)	%	<b>55</b>	60	74	63

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.2	0.3	0.4
Nitration (PA)	%	<b>49</b>	57	62	72
Sulfation (PA)	%	<b>49</b>	52	58	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.5	<1.0
Silicon	ppm	<b>3</b>	2	4	5
Sodium	ppm	<b>1</b>	2	2	1
Potassium	ppm	<b>2</b>	0	2	0

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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	<b>5</b>	8	15	10
Copper	ppm	<b>2</b>	3	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	3	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>60</b>	56	48	60
Nickel	ppm	<b>&lt;1</b>	<1	2	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1069</b>	1148	1511	1129
Magnesium	ppm	<b>942</b>	833	602	940
Zinc	ppm	<b>1184</b>	1027	1150	1272
Phosphorus	ppm	<b>982</b>	974	1000	1098
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	6	46	0

**Depot:** VOLVO2990  
**Unique No:** 10996683  
**Signed:** Sean Felton  
**Report Date:** 29 Apr 2024



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## GRAPHS

