



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352441 - DIESEL ENGINE



**Sample No:** VCP431854  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP431854</b>	VCP422408	VCP402828	VCP412291
Sample Date	<b>25 Jan 2024</b>	05 Dec 2023	27 Sep 2023	16 Aug 2023
Machine Hours	<b>7893</b>	7520	0	6804
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	14.0	12.4	11.9
Base Number (BN)	mg KOH/g	<b>7.0</b>	8.1	10.5	10.1
Oxidation (PA)	%	<b>44</b>	42	78	76

### 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.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>57</b>	45	48	53
Sulfation (PA)	%	<b>46</b>	44	59	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	1.7
Silicon	ppm	<b>3</b>	2	3	4
Sodium	ppm	<b>&lt;1</b>	0	1	2
Potassium	ppm	<b>2</b>	0	1	0

### WEAR METALS

Iron	ppm	<b>2</b>	<1	3	4
Copper	ppm	<b>0</b>	2	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	2	<1
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>13</b>	12	56	69
Nickel	ppm	<b>1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1

### ADDITIVES

Calcium	ppm	<b>2056</b>	1939	1620	1711
Magnesium	ppm	<b>181</b>	129	476	532
Zinc	ppm	<b>1069</b>	1042	1082	1085
Phosphorus	ppm	<b>928</b>	865	914	908
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>10</b>	9	58	59

**Depot:** VOLVO0090  
**Unique No:** 10849249  
**Signed:** Wes Davis  
**Report Date:** 30 Jan 2024

**VOLVO** GRAPHS

