



# CONSTRUCTION EQUIPMENT

702884 APTIM VOLVO A30G 740273 - DIESEL ENGINE



**Sample No:** VCP451267  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 702884 APTIM



## SAMPLE INFORMATION

Sample Number	<b>VCP451267</b>	VCP428848	VCP416189	VCP422498
Sample Date	<b>23 Apr 2024</b>	02 Jan 2024	22 Aug 2023	29 Mar 2023
Machine Hours	<b>11987</b>	11556	11091	10657
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.3	11.9	12.1
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.1	9.3	9.1
Oxidation (PA)	%	<b>69</b>	78	78	75



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.4	0.3	0.4
Nitration (PA)	%	<b>56</b>	61	63	67
Sulfation (PA)	%	<b>56</b>	61	60	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	6	7
Sodium	ppm	<b>&lt;1</b>	0	1	2
Potassium	ppm	<b>1</b>	2	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	<b>8</b>	7	8	11
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>2</b>	2	4	3
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>44</b>	41	45	42
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	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	0



## ADDITIVES

Calcium	ppm	<b>1419</b>	1620	1693	1684
Magnesium	ppm	<b>546</b>	463	528	538
Zinc	ppm	<b>1066</b>	1044	1150	1109
Phosphorus	ppm	<b>975</b>	976	933	939
Barium	ppm	<b>1</b>	10	0	0
Boron	ppm	<b>33</b>	32	31	32

**Depot:** VOLVO0093  
**Unique No:** 11057066  
**Signed:** Don Baldrige  
**Report Date:** 31 May 2024



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## VOLVO GRAPHS

