



# CONSTRUCTION EQUIPMENT

## 659918 APTIM VOLVO A30G 740029 - DIESEL ENGINE



**Sample No:** VCP440619  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 659918 APTIM



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### SAMPLE INFORMATION

Sample Number	<b>VCP440619</b>	VCP414221	VCP423680	VCP389358
Sample Date	<b>11 Jan 2024</b>	12 Jul 2023	03 Apr 2023	17 Oct 2022
Machine Hours	<b>9977</b>	9441	8919	8409
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.3	12.0	12.7
Base Number (BN)	mg KOH/g	<b>8.5</b>	8.8	7.8	9.1
Oxidation (PA)	%	<b>75</b>	76	74	80



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	0.117
Soot %	%	<b>0.7</b>	0.6	0.5	0.8
Nitration (PA)	%	<b>70</b>	66	60	86
Sulfation (PA)	%	<b>60</b>	60	56	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	1.5	<1.0
Silicon	ppm	<b>6</b>	5	4	4
Sodium	ppm	<b>2</b>	2	0	2
Potassium	ppm	<b>0</b>	<1	2	2



### WEAR METALS

Iron	ppm	<b>10</b>	8	8	11
Copper	ppm	<b>&lt;1</b>	<1	<1	2
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	<1	0	2
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>48</b>	43	39	35
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	2
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1679</b>	1658	1630	1711
Magnesium	ppm	<b>576</b>	532	427	442
Zinc	ppm	<b>1156</b>	1105	1070	1097
Phosphorus	ppm	<b>985</b>	914	879	893
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>24</b>	23	41	19

### 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.

**Depot:** VOLVO0093  
**Unique No:** 10861622  
**Signed:** Wes Davis  
**Report Date:** 06 Feb 2024



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## GRAPHS

