



# CONSTRUCTION EQUIPMENT

579157 APTIM VOLVO A30G 740029 - DIESEL ENGINE



**Sample No:** VCP414221  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 579157 APTIM



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## SAMPLE INFORMATION

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



## OIL CONDITION

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



## CONTAMINATION

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



## WEAR METALS

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



## ADDITIVES

Calcium	ppm	<b>1658</b>	1630	1711	---
Magnesium	ppm	<b>532</b>	427	442	---
Zinc	ppm	<b>1105</b>	1070	1097	---
Phosphorus	ppm	<b>914</b>	879	893	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>23</b>	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:** 10564318  
**Signed:** Jonathan Hester  
**Report Date:** 20 Jul 2023



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## GRAPHS

