



# CONSTRUCTION EQUIPMENT

SPM714474-10 VOLVO A40G 341625 - DIESEL ENGINE



**Sample No:** VCP437724  
**Oil Type:** MOBIL 15W40  
**Job No:** SPM714474-10



## SAMPLE INFORMATION

Sample Number	<b>VCP437724</b>	VCP442655	VCP393578	VCP344735
Sample Date	<b>08 May 2024</b>	11 Jan 2024	17 Mar 2023	12 Oct 2021
Machine Hours	<b>9198</b>	8515	7472	5457
Oil Hours	<b>0</b>	0	2015	0
Oil Changed	<b>N/A</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.6	12.1	12.6
Base Number (BN)	mg KOH/g	<b>9.5</b>	9.1	8.0	---
Oxidation (PA)	%	<b>73</b>	78	66	79



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.2	0.3	0.3
Nitration (PA)	%	<b>58</b>	68	77	64
Sulfation (PA)	%	<b>57</b>	58	55	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	1.5	<1.0
Silicon	ppm	<b>4</b>	5	5	9
Sodium	ppm	<b>0</b>	2	4	2
Potassium	ppm	<b>2</b>	2	2	6



## WEAR METALS

Iron	ppm	<b>5</b>	8	13	17
Copper	ppm	<b>2</b>	4	2	2
Lead	ppm	<b>&lt;1</b>	2	3	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	3	3	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>51</b>	45	52	47
Nickel	ppm	<b>&lt;1</b>	1	2	2
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1530</b>	1557	1281	1758
Magnesium	ppm	<b>594</b>	597	722	505
Zinc	ppm	<b>1111</b>	1147	1140	1007
Phosphorus	ppm	<b>1025</b>	991	955	883
Barium	ppm	<b>2</b>	0	2	0
Boron	ppm	<b>36</b>	27	7	29

## 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:** VOLVO0090  
**Unique No:** 11022903  
**Signed:** Wes Davis  
**Report Date:** 14 May 2024



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## VOLVO GRAPHS

