



# CONSTRUCTION EQUIPMENT

W02007340 VOLVO A25G 740364 - DIESEL ENGINE



**Sample No:** VCP419593  
**Oil Type:** MOBIL 15W40  
**Job No:** W02007340



## SAMPLE INFORMATION

Sample Number	<b>VCP419593</b>	VCP386565	VCP319453	VCP320866
Sample Date	<b>12 Jul 2023</b>	29 Sep 2022	23 May 2022	18 Nov 2021
Machine Hours	<b>6439</b>	5941	5400	4902
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>▲ 11.7</b>	▲ 11.9	▲ 11.7	▲ 11.8
Base Number (BN)	mg KOH/g	<b>■ 8.4</b>	■ 9.9	■ 9.5	---
Oxidation (PA)	%	<b>70</b>	81	82	82

## CONTAMINATION

Soot %	%	<b>■ 0.3</b>	■ 0.3	■ 0.2	■ 0.2
Nitration (PA)	%	<b>69</b>	69	69	61
Sulfation (PA)	%	<b>62</b>	63	61	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>■ 6</b>	■ 3	■ 4	■ 6
Sodium	ppm	<b>■ 1</b>	■ 1	■ 2	■ 3
Potassium	ppm	<b>■ 4</b>	■ 0	■ <1	■ 6

## 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>■ 7</b>	■ 6	■ 5	■ 5
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	■ 0
Aluminum	ppm	<b>■ 3</b>	■ 1	■ 1	■ 1
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>112</b>	■ 40	■ 46	■ 43
Nickel	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ <1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1

## ADDITIVES

Calcium	ppm	<b>■ 1673</b>	■ 1614	■ 1706	■ 1871
Magnesium	ppm	<b>■ 761</b>	■ 478	■ 478	■ 553
Zinc	ppm	<b>■ 1046</b>	■ 1051	■ 1060	■ 1137
Phosphorus	ppm	<b>■ 884</b>	■ 881	■ 896	■ 982
Barium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 293</b>	■ 31	■ 60	■ 42

**Depot:** VOLVO0002  
**Unique No:** 10560869  
**Signed:** Don Baldrige  
**Report Date:** 18 Jul 2023



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## GRAPHS

