



# CONSTRUCTION EQUIPMENT

W07012962 VOLVO A35G 340181 - DIESEL ENGINE



**Sample No:** VCP425043  
**Oil Type:** MOBIL 15W40  
**Job No:** W07012962



## SAMPLE INFORMATION

Sample Number	<b>VCP425043</b>	VCP405009	VCP401281	VCP372981
Sample Date	<b>10 Jul 2023</b>	14 Apr 2023	04 Jan 2023	02 Aug 2022
Machine Hours	<b>10225</b>	9829	9415	8937
Oil Hours	<b>500</b>	0	500	0
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	ATTENTION	ATTENTION

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## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.4</b>	■ 12.7	▲ 12.3	▲ 11.7
Base Number (BN)	mg KOH/g	<b>■ 8.6</b>	■ 7.3	■ 7.7	■ 9.8
Oxidation (PA)	%	<b>66</b>	68	67	80



## CONTAMINATION

Soot %	%	<b>■ 0.2</b>	■ 0.2	■ 0.3	■ 0.3
Nitration (PA)	%	<b>74</b>	65	81	69
Sulfation (PA)	%	<b>54</b>	52	54	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>■ 1.1</b>	<1.0	<1.0	■ 1.9
Silicon	ppm	<b>■ 10</b>	■ 6	■ 8	■ 7
Sodium	ppm	<b>■ 5</b>	■ <1	■ <1	■ 1
Potassium	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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>■ 10</b>	■ 8	■ 9	■ 9
Copper	ppm	<b>■ 1</b>	■ 8	■ 1	■ 1
Lead	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Tin	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ <1
Aluminum	ppm	<b>■ 5</b>	■ 4	■ 5	■ 4
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 50</b>	■ 39	■ 62	■ 46
Nickel	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	<1
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>■ 1328</b>	■ 1780	■ 1281	■ 1482
Magnesium	ppm	<b>■ 761</b>	■ 436	■ 667	■ 476
Zinc	ppm	<b>■ 922</b>	■ 1087	■ 856	■ 995
Phosphorus	ppm	<b>■ 778</b>	■ 898	■ 644	■ 814
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 27</b>	■ 25	■ 21	■ 53

**Depot:** VOLVO8882  
**Unique No:** 10563377  
**Signed:** Jonathan Hester  
**Report Date:** 20 Jul 2023

