



# CONSTRUCTION EQUIPMENT

702890 APTIM VOLVO A35G 340109 - DIESEL ENGINE



**Sample No:** VCP437088  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 702890 APTIM



## SAMPLE INFORMATION

Sample Number	VCP437088	VCP426242	VCP424459	VCP422457
Sample Date	29 Apr 2024	12 Oct 2023	11 Jul 2023	16 Mar 2023
Machine Hours	9978	9376	8937	8480
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	10.4	11.7	11.7	11.5
Base Number (BN)	mg KOH/g	8.3	9.9	9.3	8.6
Oxidation (PA)	%	75	78	75	61



## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	55	62	64	68
Sulfation (PA)	%	58	58	58	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.5	3.0
Silicon	ppm	8	7	10	9
Sodium	ppm	0	2	2	2
Potassium	ppm	1	0	0	<1



## WEAR METALS

Iron	ppm	12	7	13	16
Copper	ppm	1	<1	<1	1
Lead	ppm	2	1	0	0
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	3	2	4	4
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	36	44	48	50
Nickel	ppm	1	<1	<1	1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



## ADDITIVES

Calcium	ppm	1565	1582	1706	1516
Magnesium	ppm	415	501	558	625
Zinc	ppm	993	1102	1151	977
Phosphorus	ppm	898	933	940	829
Barium	ppm	1	<1	0	0
Boron	ppm	25	27	35	50

## 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.

**Depot:** VOLVO0093  
**Unique No:** 11057068  
**Signed:** Don Baldrige  
**Report Date:** 31 May 2024



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## GRAPHS

