



# CONSTRUCTION EQUIPMENT

## 23984 VOLVO A40G 352317 - DIESEL ENGINE



**Sample No:** VCP430770  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 23984



### SAMPLE INFORMATION

Sample Number	VCP430770	VCP425746	VCP359829	VCP342473
Sample Date	01 Sep 2023	12 May 2023	21 May 2022	22 Nov 2021
Machine Hours	7671	4807	3937	3065
Oil Hours	1000	1000	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	MARGINAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	12.4	12.9
Base Number (BN)	mg KOH/g	7.0	9.5	7.4	9
Oxidation (PA)	%	60	80	91	86

### 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.



### CONTAMINATION

Soot %	%	0.4	0.2	0.4	0.5
Nitration (PA)	%	67	63	103	83
Sulfation (PA)	%	60	62	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	2.7	<1.0
Silicon	ppm	5	5	7	6
Sodium	ppm	<1	62	30	0
Potassium	ppm	0	3	2	<1



### WEAR METALS

Iron	ppm	10	8	20	19
Copper	ppm	4	3	5	10
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	3	4	20	13
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	88	51	46	43
Nickel	ppm	<1	<1	0	2
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	1441	1662	1732	1841
Magnesium	ppm	558	467	490	516
Zinc	ppm	1190	1102	1184	1065
Phosphorus	ppm	978	939	947	975
Barium	ppm	0	0	0	0
Boron	ppm	251	103	21	15

**Depot:** VOLVO3387  
**Unique No:** 10636123  
**Signed:** Wes Davis  
**Report Date:** 11 Sep 2023



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## GRAPHS

