



# CONSTRUCTION EQUIPMENT

## 24350 VOLVO A40G 352317 - DIESEL ENGINE



**Sample No:** VCP418479  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24350



### SAMPLE INFORMATION

Sample Number	<b>VCP418479</b>	VCP430770	VCP425746	VCP359829
Sample Date	<b>27 Oct 2023</b>	01 Sep 2023	12 May 2023	21 May 2022
Machine Hours	<b>5016</b>	7671	4807	3937
Oil Hours	<b>1000</b>	1000	1000	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	MARGINAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	12.4	12.4	12.4
Base Number (BN)	mg KOH/g	<b>10.9</b>	7.0	9.5	7.4
Oxidation (PA)	%	<b>75</b>	60	80	91

### 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 %	%	<b>0.2</b>	0.4	0.2	0.4
Nitration (PA)	%	<b>50</b>	67	63	103
Sulfation (PA)	%	<b>59</b>	60	62	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	2.7
Silicon	ppm	<b>7</b>	5	5	7
Sodium	ppm	<b>56</b>	<1	62	30
Potassium	ppm	<b>2</b>	0	3	2



### WEAR METALS

Iron	ppm	<b>11</b>	10	8	20
Copper	ppm	<b>2</b>	4	3	5
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>4</b>	3	4	20
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>43</b>	88	51	46
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	0	<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>1674</b>	1441	1662	1732
Magnesium	ppm	<b>518</b>	558	467	490
Zinc	ppm	<b>1177</b>	1190	1102	1184
Phosphorus	ppm	<b>906</b>	978	939	947
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>58</b>	251	103	21

**Depot:** VOLVO3387  
**Unique No:** 10726089  
**Signed:** Jonathan Hester  
**Report Date:** 07 Nov 2023



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## GRAPHS

