



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 752343 - DIESEL ENGINE



**Sample No:** VCP441728  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441728</b>	VCP432067	VCP424515	VCP410225
Sample Date	<b>15 Feb 2024</b>	27 Oct 2023	21 Jul 2023	24 Apr 2023
Machine Hours	<b>5085</b>	4507	3990	3570
Oil Hours	<b>0</b>	0	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
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 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.2	12.8	12.8
Base Number (BN)	mg KOH/g	<b>8.8</b>	9.5	9.0	9.1
Oxidation (PA)	%	<b>72</b>	77	76	80

### 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.5</b>	0.5	0.4	0.5
Nitration (PA)	%	<b>73</b>	72	64	69
Sulfation (PA)	%	<b>57</b>	59	58	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	0.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	4	4
Sodium	ppm	<b>2</b>	0	3	3
Potassium	ppm	<b>2</b>	4	2	3



### WEAR METALS

Iron	ppm	<b>10</b>	11	8	9
Copper	ppm	<b>2</b>	1	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	1
Aluminum	ppm	<b>6</b>	4	4	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>49</b>	48	40	42
Nickel	ppm	<b>&lt;1</b>	<1	<1	1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1576</b>	1561	1709	1713
Magnesium	ppm	<b>612</b>	527	486	453
Zinc	ppm	<b>1180</b>	1065	1164	1160
Phosphorus	ppm	<b>1017</b>	871	976	957
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>22</b>	21	33	39

**Depot:** RIPTAM  
**Unique No:** 11018419  
**Signed:** Wes Davis  
**Report Date:** 09 May 2024



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## VOLVO GRAPHS

