



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 752144 - DIESEL ENGINE



**Sample No:** VCP452125  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP452125</b>	VCP429250	VCP398779	VCP381364
Sample Date	<b>08 Jan 2024</b>	02 Oct 2023	17 Mar 2023	08 Dec 2022
Machine Hours	<b>5842</b>	5308	4310	3778
Oil Hours	<b>0</b>	0	500	500
Oil Changed	<b>Changed</b>	N/A	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>12.8</b>	12.7	12.7	12.9
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.3	9.5	9.5
Oxidation (PA)	%	<b>80</b>	78	80	75

### 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>0.4</b>	0.4	0.4	0.4
Nitration (PA)	%	<b>68</b>	70	72	69
Sulfation (PA)	%	<b>60</b>	60	61	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	4	4
Sodium	ppm	<b>0</b>	2	2	3
Potassium	ppm	<b>1</b>	0	0	0



### WEAR METALS

Iron	ppm	<b>7</b>	7	9	9
Copper	ppm	<b>1</b>	2	1	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	3	4	4
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>42</b>	47	50	51
Nickel	ppm	<b>1</b>	<1	4	<1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1612</b>	1666	1737	1718
Magnesium	ppm	<b>504</b>	518	532	538
Zinc	ppm	<b>1130</b>	1140	1149	1141
Phosphorus	ppm	<b>932</b>	940	972	949
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>30</b>	26	35	30

**Depot:** RIPTAM  
**Unique No:** 10870767  
**Signed:** Wes Davis  
**Report Date:** 08 Feb 2024



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## GRAPHS

