



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 752847 - DIESEL ENGINE



**Sample No:** VCP443016  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP443016</b>	VCP449206	VCP407822	VCP392536
Sample Date	<b>12 Jun 2024</b>	16 Mar 2024	09 Jun 2023	15 Mar 2023
Machine Hours	<b>3767</b>	3292	1668	1063
Oil Hours	<b>0</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

**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>12.4</b>	12.8	12.6	11.9
Base Number (BN)	mg KOH/g	<b>8.6</b>	9.4	8.7	8.3
Oxidation (PA)	%	<b>75</b>	74	85	82

### 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>	0.3	0.5	0.4
Nitration (PA)	%	<b>71</b>	63	80	74
Sulfation (PA)	%	<b>60</b>	58	65	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.4
Silicon	ppm	<b>4</b>	4	4	8
Sodium	ppm	<b>2</b>	2	2	2
Potassium	ppm	<b>&lt;1</b>	2	0	<1



### WEAR METALS

Iron	ppm	<b>9</b>	7	12	15
Copper	ppm	<b>2</b>	2	22	149
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	1	1
Aluminum	ppm	<b>2</b>	5	1	1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>37</b>	40	39	69
Nickel	ppm	<b>0</b>	1	<1	2
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	1	<1	2
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1639</b>	1817	1660	1816
Magnesium	ppm	<b>543</b>	526	424	500
Zinc	ppm	<b>1133</b>	1184	1049	1201
Phosphorus	ppm	<b>974</b>	1049	845	968
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>27</b>	47	17	26

**Depot:** RIPTAM  
**Unique No:** 11084089  
**Signed:** Sean Felton  
**Report Date:** 19 Jun 2024



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## GRAPHS

