



# CONSTRUCTION EQUIPMENT

593927 VOLVO A30G 752151 - DIESEL ENGINE



**Sample No:** VCP425222  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 593927



## SAMPLE INFORMATION

Sample Number	<b>VCP425222</b>	VCP411089	VCP397259	VCP389225
Sample Date	<b>14 Aug 2023</b>	08 May 2023	16 Jan 2023	17 Oct 2022
Machine Hours	<b>5197</b>	4896	4145	3664
Oil Hours	<b>500</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  
 PMServices@ripaconstruction.com  
 T:  
 F:

## OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.6	12.6	12.5
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.7	9.3	10.9
Oxidation (PA)	%	<b>77</b>	78	81	87

## CONTAMINATION

Soot %	%	<b>0.2</b>	0.3	0.4	0.1
Nitration (PA)	%	<b>58</b>	73	73	58
Sulfation (PA)	%	<b>58</b>	60	61	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	6	4
Sodium	ppm	<b>3</b>	0	2	<1
Potassium	ppm	<b>0</b>	2	0	<1

## 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.

## WEAR METALS

Iron	ppm	<b>6</b>	9	12	4
Copper	ppm	<b>1</b>	<1	1	<1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	4	5	0
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>46</b>	48	46	42
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	6	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1860</b>	1642	1556	1658
Magnesium	ppm	<b>563</b>	476	567	492
Zinc	ppm	<b>1224</b>	1073	1150	1106
Phosphorus	ppm	<b>1009</b>	913	919	926
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>34</b>	33	28	36

**Depot:** RIPTAM  
**Unique No:** 10636068  
**Signed:** Wes Davis  
**Report Date:** 08 Sep 2023



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## GRAPHS

