



# CONSTRUCTION EQUIPMENT

634802 VOLVO A30G 752326 - DIESEL ENGINE



**Sample No:** VCP432194  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 634802



## SAMPLE INFORMATION

Sample Number	<b>VCP432194</b>	VCP425841	VCP393522	VCP386177
Sample Date	<b>30 Nov 2023</b>	06 Jun 2023	08 Mar 2023	18 Nov 2022
Machine Hours	<b>4560</b>	5591	3043	2471
Oil Hours	<b>500</b>	0	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	SEVERE	MARGINAL	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>12.8</b>	10.7	12.4	12.8
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.4	8.7	11.0
Oxidation (PA)	%	<b>79</b>	72	79	84

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.3	0.4	0.3
Nitration (PA)	%	<b>67</b>	65	69	65
Sulfation (PA)	%	<b>59</b>	58	61	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.4</b>	6.5	0.4	<1.0
Silicon	ppm	<b>4</b>	2	2	4
Sodium	ppm	<b>2</b>	2	0	2
Potassium	ppm	<b>0</b>	2	2	0

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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>7</b>	0	8	6
Copper	ppm	<b>6</b>	0	2	<1
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>3</b>	6	2	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>44</b>	46	73	41
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>0</b>	6	<1	5
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0

## ADDITIVES

Calcium	ppm	<b>1796</b>	1949	1764	1630
Magnesium	ppm	<b>512</b>	513	457	544
Zinc	ppm	<b>1170</b>	1271	1151	1159
Phosphorus	ppm	<b>995</b>	1052	946	904
Barium	ppm	<b>0</b>	12	2	0
Boron	ppm	<b>28</b>	49	28	35

**Depot:** RIPTAM  
**Unique No:** 10833706  
**Signed:** Wes Davis  
**Report Date:** 19 Jan 2024



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## VOLVO GRAPHS

