



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 752866 - DIESEL ENGINE



**Sample No:** VCP454952  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP454952</b>	VCP440916	VCP422142	VCP402963
Sample Date	<b>08 Jul 2024</b>	15 Mar 2024	05 Jul 2023	13 Feb 2023
Machine Hours	<b>2732</b>	2208	1096	526
Oil Hours	<b>0</b>	500	500	526
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	MARGINAL	ABNORMAL

**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>12.3</b>	12.9	12.3	10.8
Base Number (BN)	mg KOH/g	<b>8.5</b>	8.9	8.7	6.2
Oxidation (PA)	%	<b>77</b>	78	77	59

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.4	0.4	0.3
Nitration (PA)	%	<b>76</b>	72	72	82
Sulfation (PA)	%	<b>60</b>	60	63	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.1</b>	<1.0	<1.0	0.6
Silicon	ppm	<b>4</b>	3	7	46
Sodium	ppm	<b>2</b>	1	2	3
Potassium	ppm	<b>&lt;1</b>	1	2	4



### WEAR METALS

Iron	ppm	<b>8</b>	10	12	27
Copper	ppm	<b>1</b>	4	123	398
Lead	ppm	<b>0</b>	<1	1	<1
Tin	ppm	<b>0</b>	1	<1	3
Aluminum	ppm	<b>2</b>	2	2	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	41	52	85
Nickel	ppm	<b>0</b>	2	2	4
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	2	6
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>1631</b>	1833	1698	2118
Magnesium	ppm	<b>573</b>	543	394	134
Zinc	ppm	<b>1113</b>	1243	1041	1210
Phosphorus	ppm	<b>935</b>	1019	845	1030
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>18</b>	32	28	24

**Depot:** RIPTAM  
**Unique No:** 11124260  
**Signed:** Wes Davis  
**Report Date:** 16 Jul 2024

**VOLVO** **GRAPHS**

