



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 752905 - DIESEL ENGINE



**Sample No:** VCP451194  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP451194</b>	VCP414670	VCP424507	VCP397487
Sample Date	<b>03 May 2024</b>	11 Sep 2023	13 Jun 2023	22 Feb 2023
Machine Hours	<b>2913</b>	1802	1294	537
Oil Hours	<b>0</b>	0	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	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>12.8</b>	12.5	12.7	10.6
Base Number (BN)	mg KOH/g	<b>8.4</b>	9.6	7.3	5.7
Oxidation (PA)	%	<b>79</b>	82	84	60

### 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>0.5</b>	0.2	1	0.7
Nitration (PA)	%	<b>74</b>	68	92	88
Sulfation (PA)	%	<b>61</b>	60	67	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.5
Silicon	ppm	<b>3</b>	6	9	64
Sodium	ppm	<b>3</b>	3	2	<1
Potassium	ppm	<b>0</b>	<1	1	5



### WEAR METALS

Iron	ppm	<b>15</b>	4	25	45
Copper	ppm	<b>9</b>	1	104	382
Lead	ppm	<b>0</b>	<1	2	<1
Tin	ppm	<b>0</b>	<1	2	4
Aluminum	ppm	<b>8</b>	1	3	4
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>44</b>	46	50	92
Nickel	ppm	<b>3</b>	<1	1	2
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>1</b>	<1	2	7
Vanadium	ppm	<b>0</b>	<1	<1	<1



### ADDITIVES

Calcium	ppm	<b>1738</b>	1839	1722	2354
Magnesium	ppm	<b>560</b>	555	395	17
Zinc	ppm	<b>1097</b>	1225	1035	1201
Phosphorus	ppm	<b>947</b>	1006	834	1027
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>9</b>	33	15	20

**Depot:** RIPTAM  
**Unique No:** 11029629  
**Signed:** Wes Davis  
**Report Date:** 14 May 2024



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## GRAPHS

