



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 742110 - DIESEL ENGINE



**Sample No:** VCP432177  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP432177</b>	VCP386648	VCP386074	VCP345795
Sample Date	<b>25 Jan 2024</b>	29 Nov 2022	10 Sep 2022	20 Jan 2022
Machine Hours	<b>11532</b>	9561	9156	7720
Oil Hours	<b>0</b>	500	500	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION

### 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>	▲ 12.0	▲ 12.3	▲ 12.1
Base Number (BN)	mg KOH/g	<b>■ 9.3</b>	■ 10.3	■ 11.0	■ 10.2
Oxidation (PA)	%	<b>71</b>	84	86	82

### Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.3</b>	■ 0.3	■ 0.3	■ 0.4
Nitration (PA)	%	<b>61</b>	66	70	73
Sulfation (PA)	%	<b>56</b>	66	66	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	■ 1.9	<1.0	<1.0
Silicon	ppm	<b>■ 3</b>	■ 4	■ 6	■ 4
Sodium	ppm	<b>■ 3</b>	■ <1	■ 4	■ 2
Potassium	ppm	<b>■ 1</b>	■ <1	■ <1	■ 0



### WEAR METALS

Iron	ppm	<b>■ 2</b>	■ 6	■ 5	■ 8
Copper	ppm	<b>■ 0</b>	■ <1	■ 1	■ <1
Lead	ppm	<b>■ 0</b>	■ 0	■ 1	■ <1
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Aluminum	ppm	<b>■ 1</b>	■ 0	■ 3	■ 1
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 44</b>	■ 41	■ 39	■ 43
Nickel	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ 0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	0	1	0



### ADDITIVES

Calcium	ppm	<b>■ 1546</b>	■ 1670	■ 1626	■ 1654
Magnesium	ppm	<b>■ 384</b>	■ 485	■ 501	■ 573
Zinc	ppm	<b>■ 1024</b>	■ 1095	■ 1089	■ 1082
Phosphorus	ppm	<b>■ 885</b>	■ 915	■ 916	■ 975
Barium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 35</b>	■ 32	■ 27	87

**Depot:** RIPTAM  
**Unique No:** 10847973  
**Signed:** Jonathan Hester  
**Report Date:** 26 Jan 2024



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## GRAPHS

