



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 742109 - DIESEL ENGINE



**Sample No:** VCP440603  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP440603</b>	VCP417328	VCP424425	VCP397472
Sample Date	<b>03 Oct 2023</b>	12 Jun 2023	11 Jun 2023	16 Jan 2023
Machine Hours	<b>9870</b>	9114	7442	8854
Oil Hours	<b>0</b>	500	0	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	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>▲ 11.6</b>	▲ 12.0	▲ 11.9	■ 12.3
Base Number (BN)	mg KOH/g	<b>■ 9.1</b>	■ 9.7	■ 9.3	■ 8.7
Oxidation (PA)	%	<b>70</b>	73	74	69

### 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Soot %	%	<b>■ 0.3</b>	■ 0.4	■ 0.4	■ 0.4
Nitration (PA)	%	<b>59</b>	66	73	66
Sulfation (PA)	%	<b>56</b>	58	60	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>■ 1.8</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>■ 4</b>	■ 3	■ 4	■ 4
Sodium	ppm	<b>■ 2</b>	■ 2	■ 1	■ 3
Potassium	ppm	<b>■ 0</b>	■ 2	■ 0	■ 0



### WEAR METALS

Iron	ppm	<b>■ 5</b>	■ <1	■ 6	■ 10
Copper	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Tin	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Aluminum	ppm	<b>■ &lt;1</b>	■ 6	■ <1	■ <1
Chromium	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Molybdenum	ppm	<b>■ 46</b>	■ 56	■ 47	■ 44
Nickel	ppm	<b>■ 0</b>	■ 0	■ 2	■ 0
Titanium	ppm	<b>0</b>	0	0	■ 14
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Vanadium	ppm	<b>0</b>	0	<1	<1



### ADDITIVES

Calcium	ppm	<b>■ 1545</b>	■ 1781	■ 1308	■ 1501
Magnesium	ppm	<b>■ 580</b>	672	671	■ 631
Zinc	ppm	<b>■ 1137</b>	■ 1310	■ 1070	■ 1142
Phosphorus	ppm	<b>■ 942</b>	■ 1104	■ 893	■ 952
Barium	ppm	<b>■ 0</b>	■ 12	■ 0	■ 0
Boron	ppm	<b>■ 31</b>	■ 37	■ 11	■ 31

**Depot:** RIPTAM  
**Unique No:** 10699592  
**Signed:** Jonathan Hester  
**Report Date:** 20 Oct 2023



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## GRAPHS

