



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 353142 - TRANSMISSION (AUTO)



**Sample No:** VCP435612  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP435612</b>	VCP416305	VCP406904	VCP397279
Sample Date	<b>21 Feb 2024</b>	18 Aug 2023	12 Apr 2023	10 Jan 2023
Machine Hours	<b>3175</b>	2126	1624	0
Oil Hours	<b>0</b>	0	1624	1000
Oil Changed	<b>N/A</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	NORMAL

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>29.1</b>	28.1	28.4	32.3
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>5</b>	16	6	4
Sodium	ppm	<b>5</b>	6	4	4
Potassium	ppm	<b>2</b>	4	<1	0



### WEAR METALS

Iron	ppm	<b>18</b>	42	39	17
Copper	ppm	<b>10</b>	25	9	8
Lead	ppm	<b>1</b>	0	0	0
Tin	ppm	<b>1</b>	4	<1	2
Aluminum	ppm	<b>12</b>	24	6	10
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>0</b>	3	<1	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	5	6	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>128</b>	77	70	71
Magnesium	ppm	<b>2</b>	0	1	0
Zinc	ppm	<b>34</b>	0	18	<1
Phosphorus	ppm	<b>201</b>	203	188	185
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>82</b>	77	89	88

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the fluid. The fluid viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of fluid. Confirm oil type.

**Depot:** RIPTAM  
**Unique No:** 10900856  
**Signed:** Don Baldrige  
**Report Date:** 29 Feb 2024



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## GRAPHS

