



# CONSTRUCTION EQUIPMENT

## VOLVO A40F 11213 - REAR AXLE



**Sample No:** VCE159419

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCE159419</b>	VCE114704	VCE114697	---
Sample Date	<b>27 Jun 2012</b>	09 May 2012	08 May 2012	---
Machine Hours	<b>1568</b>	1047	0	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	N/A	N/A	---
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	---

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>119.6</b>	66.56	63.46	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>7</b>	6	3	---
Sodium	ppm	<b>3</b>	1	<1	---
Potassium	ppm	<b>0</b>	4	3	---



### WEAR METALS

Iron	ppm	<b>12</b>	170	209	---
Copper	ppm	<b>&lt;1</b>	2	3	---
Lead	ppm	<b>0</b>	2	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>&lt;1</b>	1	1	---
Chromium	ppm	<b>&lt;1</b>	3	4	---
Molybdenum	ppm	<b>0</b>	14	11	---
Nickel	ppm	<b>0</b>	<1	1	---
Titanium	ppm	<b>&lt;1</b>	6	4	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	12	12	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>37</b>	106	121	---
Magnesium	ppm	<b>0</b>	0	0	---
Zinc	ppm	<b>18</b>	10	7	---
Phosphorus	ppm	<b>1584</b>	1445	1247	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>241</b>	172	162	---

### Diagnosis

We advise that you inspect for the source(s) of metal. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. High concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the component. The oil viscosity is higher than normal.

**Depot:** VOLVO2990  
**Unique No:** 5960544  
**Signed:** Elizabeth Valachovic  
**Report Date:** 05 Jul 2012



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## GRAPHS

