



# CONSTRUCTION EQUIPMENT

## VOLVO A30 60110 - DIESEL ENGINE



**Sample No:** VCP124571

**Oil Type:** SAE 15W40

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP124571</b>	VCP008960	---	---
Sample Date	<b>17 May 2006</b>	14 Jul 2005	---	---
Machine Hours	<b>7181</b>	6485	---	---
Oil Hours	<b>300</b>	100	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	SEVERE	---	---

**HOFFMAN EQUIPMENT - LIONVILLE**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	16.13	---	---
Oxidation (PA)	%	<b>70</b>	100	---	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.6</b>	0.2	---	---
Nitration (PA)	%	<b>25</b>	45	---	---
Sulfation (PA)	%	<b>37</b>	30	---	---
Glycol	%	<b>NEG</b>	▲ 0.10	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>8</b>	▲ 34	---	---
Sodium	ppm	<b>7</b>	▲ 716	---	---
Potassium	ppm	<b>2</b>	▲ 1815	---	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. No evidence of antifreeze present in the oil. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>38</b>	▲ 442	---	---
Copper	ppm	<b>22</b>	▲ 349	---	---
Lead	ppm	<b>10</b>	▲ 513	---	---
Tin	ppm	<b>3</b>	▲ 9	---	---
Aluminum	ppm	<b>3</b>	5	---	---
Chromium	ppm	<b>2</b>	2	---	---
Molybdenum	ppm	<b>28</b>	64	---	---
Nickel	ppm	<b>1</b>	2	---	---
Titanium	ppm	<b>&lt;1</b>	<1	---	---
Silver	ppm	<b>0</b>	1	---	---
Manganese	ppm	<b>&lt;1</b>	17	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>2405</b>	1830	---	---
Magnesium	ppm	<b>239</b>	110	---	---
Zinc	ppm	<b>1254</b>	912	---	---
Phosphorus	ppm	<b>1160</b>	1431	---	---
Barium	ppm	<b>0</b>	<1	---	---
Boron	ppm	<b>14</b>	88	---	---

**Depot:** VOLVO8879  
**Unique No:** 3695090  
**Signed:**  
**Report Date:** 24 May 2006



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## GRAPHS

