



# CONSTRUCTION EQUIPMENT

## VOLVO A30 60110 - FRONT AXLE



**Sample No:** VCP019033

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP019033   | --- | --- | --- |
| Sample Date   | 28 Jul 2005 | --- | --- | --- |
| Machine Hours | 6488        | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Not Chngd   | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

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

|             |     |       |     |     |     |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | 189.8 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



### CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Water     | %   | NEG | --- | --- | --- |
| Silicon   | ppm | 31  | --- | --- | --- |
| Sodium    | ppm | <1  | --- | --- | --- |
| Potassium | ppm | 6   | --- | --- | --- |

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.



### WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | 461 | --- | --- | --- |
| Copper     | ppm | 77  | --- | --- | --- |
| Lead       | ppm | <1  | --- | --- | --- |
| Tin        | ppm | 3   | --- | --- | --- |
| Aluminum   | ppm | 1   | --- | --- | --- |
| Chromium   | ppm | 6   | --- | --- | --- |
| Molybdenum | ppm | 0   | --- | --- | --- |
| Nickel     | ppm | 4   | --- | --- | --- |
| Titanium   | ppm | <1  | --- | --- | --- |
| Silver     | ppm | 0   | --- | --- | --- |
| Manganese  | ppm | 9   | --- | --- | --- |
| Vanadium   | ppm | 0   | --- | --- | --- |



### ADDITIVES

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 30  | --- | --- | --- |
| Magnesium  | ppm | 2   | --- | --- | --- |
| Zinc       | ppm | 15  | --- | --- | --- |
| Phosphorus | ppm | 793 | --- | --- | --- |
| Barium     | ppm | 2   | --- | --- | --- |
| Boron      | ppm | 94  | --- | --- | --- |

**Depot:** VOLVO8879  
**Unique No:** 3071351  
**Signed:**  
**Report Date:** 02 Aug 2005

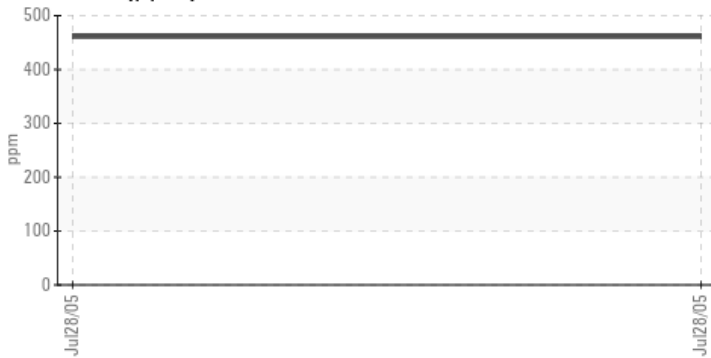


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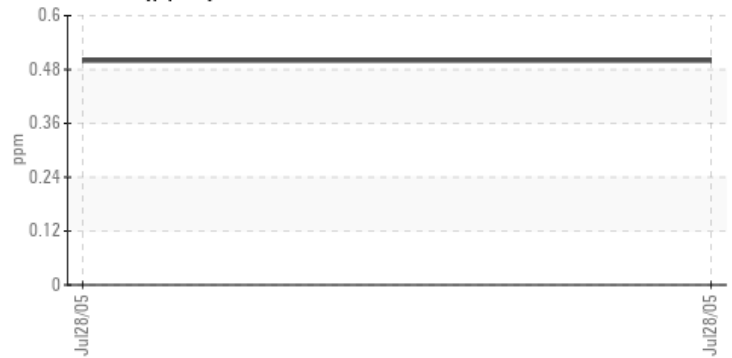


## GRAPHS

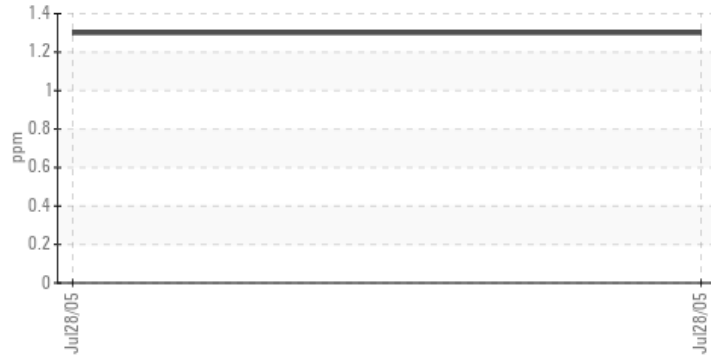
### Iron (ppm)



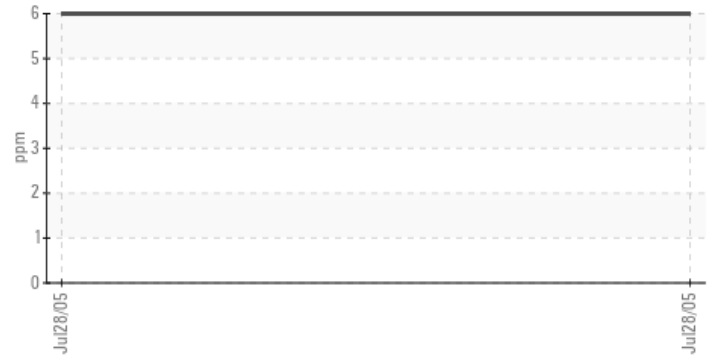
### Lead (ppm)



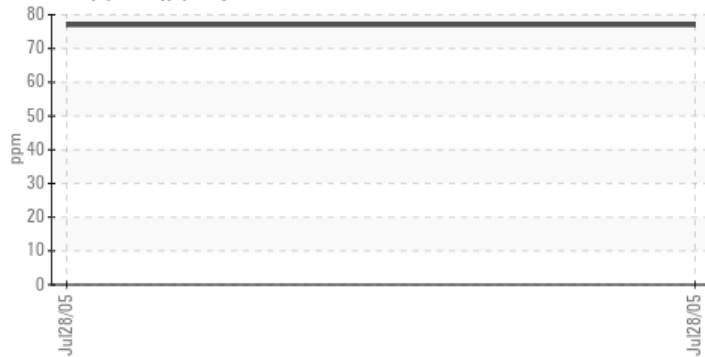
### Aluminum (ppm)



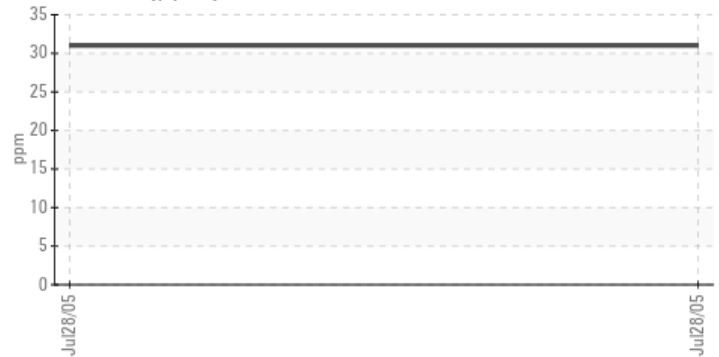
### Chromium (ppm)



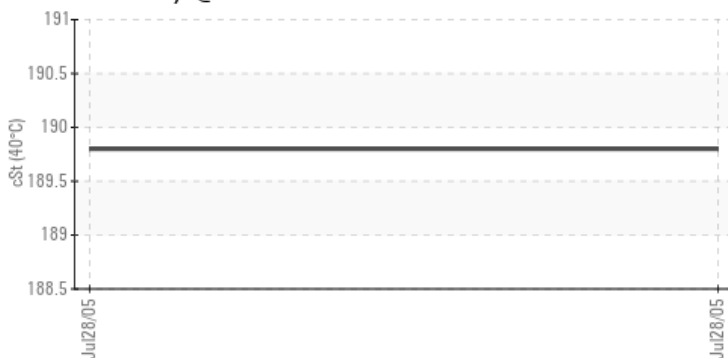
### ▲ Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

