



# CONSTRUCTION EQUIPMENT

405980 CARR BROS VOLVO A40F 11213 - TRANSMISSION (AUTO)



**Sample No:** VCP423975  
**Oil Type:** UNKNOWN ATF  
**Job No:** 405980 CARR BROS



## SAMPLE INFORMATION

|               |                    |             |             |             |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | <b>VCP423975</b>   | VCP383084   | VCP383069   | VCE159415   |
| Sample Date   | <b>05 Dec 2023</b> | 04 Dec 2023 | 14 Nov 2023 | 27 Jun 2012 |
| Machine Hours | <b>15932</b>       | 15931       | 15929       | 1568        |
| Oil Hours     | <b>0</b>           | 0           | 0           | 0           |
| Oil Changed   | <b>Not Chngd</b>   | Not Chngd   | N/A         | N/A         |
| Sample Status | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    | ABNORMAL    |

**ALTA EQUIPMENT COMPANY - METRO WEST**  
56195 PONTIAC TRAIL  
NEW HUDSON, MI  
US 48165  
Contact: PAUL ELZERMAN  
paul.elzerman@altaequipment.com  
T: (248)356-5200  
F: (248)356-2029



## OIL CONDITION

|             |     |             |      |       |       |
|-------------|-----|-------------|------|-------|-------|
| Visc @ 40°C | cSt | <b>24.1</b> | 28.2 | 28.21 | 34.73 |
|-------------|-----|-------------|------|-------|-------|



## CONTAMINATION

| Water     | %   | NEG          | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon   | ppm | <b>9</b>     | 9   | 9   | 11  |
| Sodium    | ppm | <b>2</b>     | 2   | 4   | 3   |
| Potassium | ppm | <b>&lt;1</b> | <1  | <1  | 0   |

## Diagnosis

Resample at the next service interval to monitor. (reman transmission making metal).The iron level is abnormal. No visible metal detected. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



## WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>267</b>   | 249 | 235 | 48  |
| Copper     | ppm | <b>38</b>    | 36  | 37  | 316 |
| Lead       | ppm | <b>0</b>     | 0   | 0   | 0   |
| Tin        | ppm | <b>14</b>    | 13  | 12  | 9   |
| Aluminum   | ppm | <b>6</b>     | 6   | 6   | 33  |
| Chromium   | ppm | <b>&lt;1</b> | <1  | <1  | <1  |
| Molybdenum | ppm | <b>0</b>     | 0   | 0   | <1  |
| Nickel     | ppm | <b>5</b>     | 5   | 5   | <1  |
| Titanium   | ppm | <b>0</b>     | 0   | 0   | 0   |
| Silver     | ppm | <b>0</b>     | 0   | 0   | 0   |
| Manganese  | ppm | <b>12</b>    | 12  | 12  | 8   |
| Vanadium   | ppm | <b>0</b>     | 0   | 0   | 0   |



## ADDITIVES

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Calcium    | ppm | <b>69</b>    | 68  | 75  | 203 |
| Magnesium  | ppm | <b>2</b>     | 2   | 6   | 0   |
| Zinc       | ppm | <b>&lt;1</b> | <1  | 2   | 12  |
| Phosphorus | ppm | <b>182</b>   | 180 | 184 | 333 |
| Barium     | ppm | <b>0</b>     | 0   | 0   | 0   |
| Boron      | ppm | <b>75</b>    | 74  | 74  | 90  |

**Depot:** VOLVO2990  
**Unique No:** 10803074  
**Signed:** Don Baldrige  
**Report Date:** 24 Dec 2023



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## VOLVO GRAPHS

