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The test results apply to the tested structure only.

Tämän testiraportin saa kopioida vain kokonaisuudessaan.  
Testiraportin osittainen kopiointi on sallittu vain MTT Vakolan kirjallisella luvalla.  
Tässä testiraportissa esitetyt tulokset pätevät vain testatulle koekappaleelle.



## ROPS test report for ISO 3471:2008



### Avant 500/600/700-series

#### 1. Identification

##### 1.1. Machine

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Type                      | wheeled earth-moving machine, loader                       |
| Manufacturer              | Avant Tecno Oy<br>Ylötie 1<br>FI-33470 YLÖJÄRVI<br>FINLAND |
| Model number              | Avant 500/600/700-series                                   |
| Serial number             | proto                                                      |
| Machine frame part number | A21148B                                                    |

**1.2. ROPS**

|                  |                          |
|------------------|--------------------------|
| Manufacturer     | Avant Tecno Oy           |
| Model            | Avant 500/600/700-series |
| Serial number    | proto                    |
| ROPS part number | A21513                   |

**2. Information supplied by manufacturer**

|                          |         |
|--------------------------|---------|
| Maximum recommended mass | 2820 kg |
| Location of DLV          | A414517 |

**3. Criteria**

|                         |      |    |
|-------------------------|------|----|
| Lateral load force      | 16.9 | kN |
| Lateral load energy     | 2.6  | kJ |
| Vertical load force     | 55.3 | kN |
| Longitudinal load force | 13.5 | kN |

**4. Test results**

The following force and energy levels were achieved or exceeded with no penetration by the ROPS structural member or the simulated ground planes (where applicable) into the DLV.

**4.1. Lateral loading (left-hand side)**

|                                                                              |      |    |
|------------------------------------------------------------------------------|------|----|
| Maximum force attained after the energy requirement was achieved or exceeded | 32.3 | kN |
| Absorbed energy attained                                                     | 2.6  | kJ |

**4.2. Vertical loading**

|                        |      |    |
|------------------------|------|----|
| Maximum force attained | 55.6 | kN |
|------------------------|------|----|

**4.3. Longitudinal loading (from rear)**

|                        |      |    |
|------------------------|------|----|
| Maximum force attained | 15.0 | kN |
|------------------------|------|----|

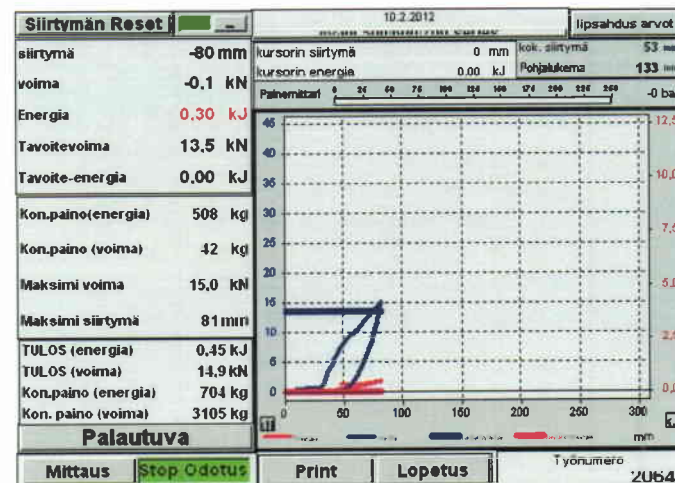
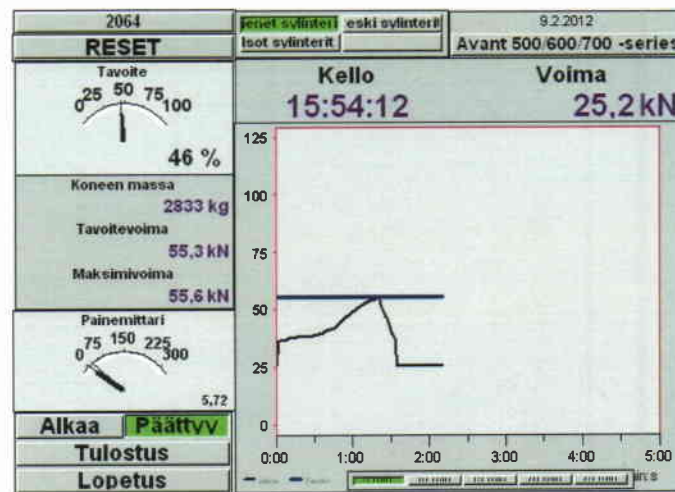
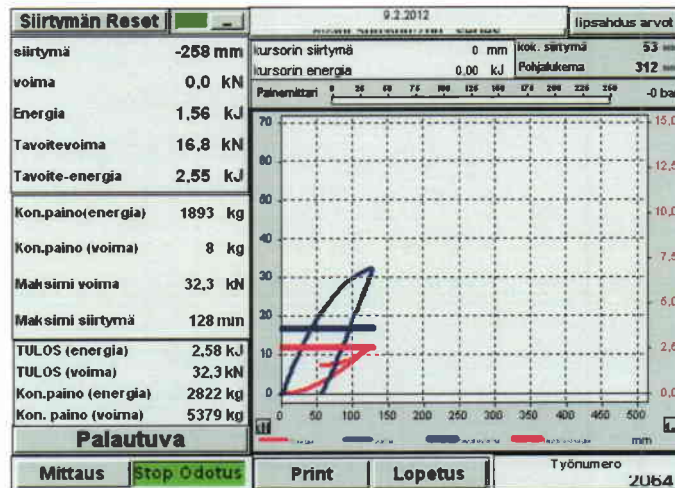
**4.4. Temperature**

|                                                                      |     |    |
|----------------------------------------------------------------------|-----|----|
| The test was performed with ROPS and machine frame members soaked to | -18 | °C |
|----------------------------------------------------------------------|-----|----|

**4.5. Use of special suspension or shock-absorption system**

No

#### 4.6. Force-deflection curve for loading test



#### 4.7. Photo of specimen

Photographs illustrating the test specimen before and after each test criteria (lateral, vertical and longitudinal) shall be included.



## 5. Attestation statement

The minimum performance requirements of ISO 3471:2008 were met in this test for a  
maximum machine mass of 2820 kg  
Date of test 09.-10.02.2012

Name and address of test facility

# MTT Vakola

head of inspection office



Lauri Tuunanen

test engineer



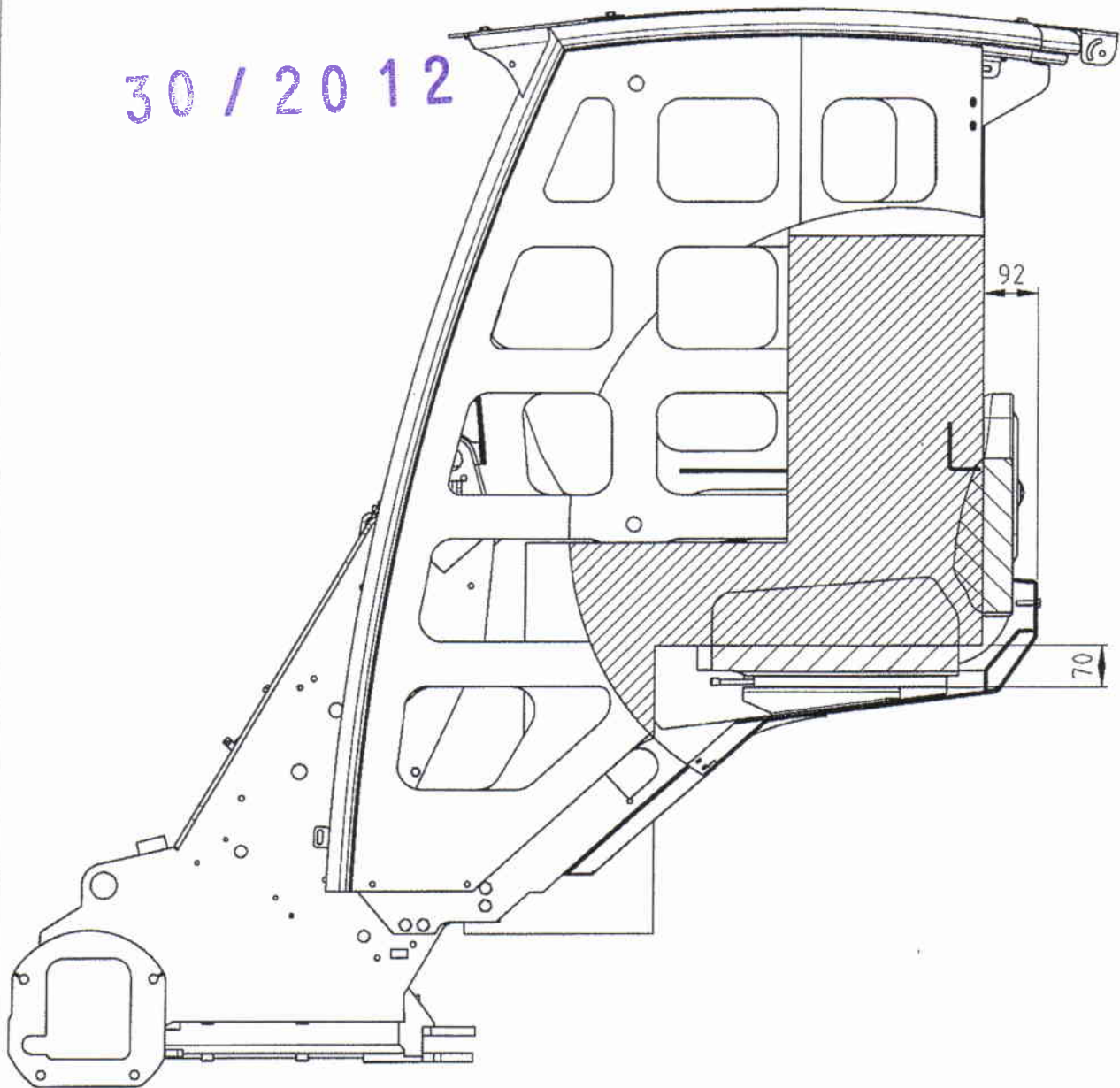
Kari Maunula





2064

30 / 2012



|                                  |                                |  |                              |                      |                                      |         |
|----------------------------------|--------------------------------|--|------------------------------|----------------------|--------------------------------------|---------|
| Toleranssit<br>Toleranssit mitat | Meistotekniikka SFS 4012       |  | Pinnan suojaus tai käsittely | R-a-koodi            | Osto-osa<br><input type="checkbox"/> |         |
|                                  | Lastuaminen SFS 4011 Keski     |  |                              |                      |                                      |         |
|                                  | Hietsatut rakenteet SFS 3393 B |  |                              |                      |                                      |         |
| Pvm.                             | Suunn.                         |  | Suhde: Liittyy               | Materiaalimäärä brt. |                                      |         |
| 4.11.2011                        | KRe                            |  |                              | Ent. piir.           | Uusi piir.                           |         |
|                                  |                                |  | Nimitys                      | PAINO                | Piir.No 4.11.2011 10:56:25           |         |
|                                  |                                |  | TURVATILA                    |                      | 571.353 kg                           | A414517 |
|                                  |                                |  | Tuote                        | HYTTILX              |                                      |         |