

Requested by Avant Tecno Oy
Ylötie 1
33470 Ylöjärvi

Order 192830

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Assignment Exterior noise emitted by earth-moving machinery
ISO 6395:2008 and
Noise at the operator's position ISO 6396:2008

Name and address of the manufacturer of the machine: Avant Tecno Oy
Ylötie 1
33470 Ylöjärvi

Identification of the tested machine

Make: Avant 860i
Type: Loader
Serial number: 946921916
Engine:
Make and model: Kohler KDI 1903 TCR Stage V
Net Power: 42 kW
Engine speed, rpm
- nominal 2600
- maximum 2730 (high idle)
Cooling system
make and model: Avant no: 66451 (390 mm)
Fan speed, rpm 1,3 x engine speed
Power transmission
Type Hydrostatic
Number of gears 2

Machine arrangement

The machine was equipped with bucket. During the test the engine speed was 2700 rpm for loading and driving mode and 2 200 rpm for loading mode.

Test site Asphalt

Method Noise was measured according to ISO 6395:2008 for ambient noise and ISO 6996:2008 for driver perceived noise. On loading phase engine speed was 2 200 rpm representing typical loading mode situation.



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Test result

Ambient temperature, °C:	10
Diameter of measurement surface, m:	10
Area of the measurement surface, m ² :	628,32
Test place and date:	Vihti 24.10.2019
Sound power level for combined travel and stationary hydraulic mode L _{WA} :	101 dB(A)
Combined A-weighted sound pressure level at the operator's position:	87,0 dB(A)
Measurements' uncertainty is	1,5 dB(A)

Vihti, 25.10.2019

Lauri Tuunanen
expert

Annexes

Sound pressures on measurement places

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Annex Averages of measured sound pressure levels, 10 m diameter

Drive mode, forward

Measurement point	Sound pressure A_{eq} dB
Front left low	71,6
Rear left low	76,3
Rear right low	76,5
Front rear low	71,5
Rear left high	74,1
Front right high	73,0

Drive mode, rearward

Measurement point	Sound pressure A_{eq} dB
Front left low	70,9
Rear left low	76,2
Rear right low	76,2
Front rear low	70,3
Rear left high	74,2
Front right high	72,0

Stationary mode, loading

Measurement point	Sound pressure A_{eq} dB
Front left low	66,2
Rear left low	73,1
Rear right low	73,0
Front rear low	67,0
Rear left high	69,3
Front right high	67,7



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