



Technical Report No.: 120622 – 08 – TAC
ECE Regulation No.: 122
Manufacturer: Advers Ltd., Samara, Russian Federation
Type: 14 TC – 10

**TECHNICAL REPORT
No. 120622 – 08 – TAC**

Test according to ECE Regulation No. 122

**Uniform technical prescriptions concerning the approval of vehicles
of categories M, N and O with regard to their heating systems**

ECE No. 122.00 – date of entry into force: 18 January 2006

including all amendments up to and including:

ECE No. 122.00, corrigendum 2 – date of entry into force: 15 November 2006

Objectives: Document for issue of approval certificate

I. Technical data

- 0.1. Make (trade name of manufacturer): Advers Ltd.
- 0.2. Type: 14 TC - 10
(Diesel Engine Pre-Heater)
- 0.2.1. Commercial name: Not applicable
- 0.3. Means of identification of type: Type marked on the label on the electronic control unit cover
- 0.4. Category of vehicle: Not applicable
- 0.5. Name and address of manufacturer: Advers Ltd.
Kuiibysheva street 103
443099 Samara
Russian Federation
- 0.8. Address of assembly plant: Lesnay street 11
443100 Samara
Russian Federation
- 0.9. Location of the approval mark: On the electronic control unit cover



II. Test report

TÜV SÜD Auto CZ s.r.o., ECE/UN Technical Service No. E8/C

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Type: 14 TC - 10



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1. Test conditions

- 1.1. Test object: Combustion Diesel Engine Pre-Heater with electronic control
- 1.1.1. Type: 14 TC - xx
Version: 14 TC – 10
- 1.1.2. Fuel: Diesel oil
- 1.1.3. Heated medium: Cooling Liquid (Water)
- 1.1.4. Voltage: 24 V
- 1.1.5. Maximal output: 15500 W
- 1.1.6. Production number: 113091 (made in 05.2008)
- 1.2. Test procedures used: According to requirements of Annexes 6 and 7 to the Regulation 2006/122/ECE.
- 1.3. Measuring and test equipment: Thermocouple thermometer GTH 175/MO
Calibration protocol No. 1033-KL-5006-08
Stop watch RUHLA
Calibration protocol No.: KL-2121/07
Exhaust emission analyzer VLT 3040
Calibration protocol No. 0507
Exhaust emission analyzer MINILYSER Nr. 2378
Calibration protocol FB 27-RP 01,
dated 11. June 2008
- 1.4. Ambient conditions: N/A
- 1.5. Test site: Testing laboratory of the company BRANO a.s.
Nám. Boženy Němcové 1
466 90 Jablonec nad Nisou
Czech Republic



2. Test results

Following numbering is according to Annexes 6 and 7 of the Regulation. 2006/122/ECE /marked in italic/

Annex 6 – Exhaust emissions

The following exhaust emissions were measured at maximum heater output by ambient temperature of 20°C

	measured	Limits
CO	0,08%	0,1%
NOx	45 ppm	200 ppm
HC	1 ppm	100 ppm
Bacharach reference unit	1	4

Annex 7 – Additional requirements for combustion heaters

1. Operating instructions:
The instructions for operating, maintenance and installation in the vehicle are delivered with every heater.
2. The ignition and switching times in the case if no flame is obtained at start-up or if the flame is going out during operation of heater.
During the test the fuel supply was closed after 2 min 45 s from the start-up if no flame was obtained at start-up.
The supply of the fuel was automatically closed after 25 s when the flame went out artificially during the operation on max. output.
3. Each heat exchanger is checked on leakage at overpressure of 2 bar in the course of the production.
4. Manufacturer's label:
The manufacturer's labels containing all prescribed data are placed on the label on the electronic control unit cover.
5. Delayed shut-off of combustion air blower:
The delayed shut-off of combustion air blower is provided after switch-off of the heater.
7. Warning light:
The clearly visible red tell-tale lamp inform, when the heater is switched on or off.

3. Specimen submitted to test on: 17 July 2008

4. Date of test: 17 July 2008



III. **Manufacturer's information folder** Application for approval of Pre Start Heater
 34 sheets total of 10 June 2008

IV. **Attachments**
 No attachments

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Auto CZ

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This report must never be reproduced incomplete without a written agreement of the testing laboratory (exemption is the use of testing results in approval documentation).

V. **Final assessment**

The described sample

complies

with the requirements of the ECE Regulation No. 122
for
issue of approval certificate

The technical report consists of pages No. 1 to 4

A blue ink signature of Vladimír Perný, consisting of a stylized, cursive script.

Vladimír Perný

Officially recognized expert

A blue ink signature of Vít Dvořák, consisting of a stylized, cursive script.

Vít Dvořák

Head of Group of experts

Prague, 18 July 2008



Ministerstvo dopravy České republiky
Ministry of Transport of the Czech Republic
Nábřeží L.Svobody 12, 110 15 Praha 1, Czech Republic



OSVĚDČENÍ o: ^{1/}

UDĚLENÍ HOMOLOGACE
ROZŠÍŘENÍ HOMOLOGACE
ODMÍTNUTÍ HOMOLOGACE
ODEJMUTÍ HOMOLOGACE
UKONČENÍ VÝROBY

COMMUNICATION concerning: ^{1/}

APPROVAL GRANTED
APPROVAL EXTENDED
APPROVAL REFUSED
APPROVAL WITHDRAWN
PRODUCTION DEFINITELY DISCONTINUED

typu konstrukční části podle předpisu č. 122
of a component type pursuant to Regulation No. 122

Homologace č.:
Approval No.: **122 R – 004988**

Rozšíření č.: –
Extension No.: **N/A**

Důvod rozšíření: –
Reason for extension: **N/A**

ČÁST / SECTION I

1. VŠEOBECNĚ / GENERAL

1.1 Značka (obchodní název výrobce):
Make (trade name of manufacturer):

Advers

1.2. Typ:
Type:

14 TC-10

Varianty / Variants:

N/A

1.3 Způsob identifikace typu,
je-li na zařízení vyznačen ^(b):
Means of identification of type,
if marked on the device ^(b):

Písmeny a číslicemi
By letters and digits

1.3.1 Umístění označení:
Location of that marking:

Na štítku na krytu řídicí jednotky.
On the label on the electronic unit cover.

1.4 Název a adresa výrobce:
Name and address of manufacturer's:

Advers Ltd.
Kuiibysheva street 103
443099 Samara
Russian Federation

1.5 Umístění značky EHK homologace:
Location of the ECE approval mark:

Na krytu řídicí jednotky.
On the electronic unit cover.

1.6 Adresa montážního závodu(-ů):
Address(es) of assembly plant(s):

Advers Ltd.
Lesnay street 11
443100 Samara
Russian Federation



ČÁST / SECTION II

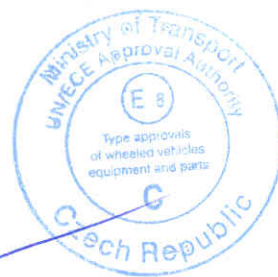
1. Případné doplňkové informace:
Additional information (where applicable): –
N/A
2. Technická zkušebna odpovědná za zkoušky:
Technical service responsible
for carrying out the tests: E8/C: TÜV SÜD Auto CZ s.r.o.
Novodvorská 994/138
142 21 Praha 4
Czech Republic
3. Datum zkušebních protokolů:
Date of test reports: 18 July 2008
4. Čísla zkušebních protokolů:
Numbers of test reports: 120622 – 08 – TAC
5. Případné poznámky:
Remarks (if any): –
N/A

6. Místo:
Place: Praha

7. Datum:
Date: 22 July 2008

8. Podpis:
Signature:

Oleg Spružina



9. Homologační dokumentace je uložena u homologačního orgánu a lze ji obdržet na vyžádání.
The information package lodged with the approval authority may be obtained on request.

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- 1/ Nehodící se škrtněte (jsou případy, v kterých se neškrtně nic, jestliže se použije více položek).
Strike out what does not apply (there are cases where nothing needs to be deleted, when more than one entry is applicable).
- (b) Jestliže prostředek k identifikaci typu obsahuje znaky, které se netýkají popisu typu vozidla, konstrukční části nebo samostatného technického celku, které jsou předmětem tohoto informačního dokumentu, nahradí se takové znaky v dokumentaci symbolem „?“ (např. ABC??123??).
If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered in this information document, such characters shall be represented in the documentation by the symbol "?" (e.g. ABC??123??).