

EUROTECH, EUROSTAR, EUROTRAKKER

54.01.10

ENGINE



**Subject**

Cursor 8/10/13 engine: Instructions and guide lines when using bio-diesel to a maximum proportion of 30%.

**Description**

S.I. 2001/0030/1 is superseded herewith, because it has been noted that using 100% bio-diesel in the Cursor 8 / 10 / 13 engines significantly reduces the working life. IVECO has therefore carried out a series of tests with bio-diesel relative to its application possibilities. The test results have led to IVECO **giving approval for the use of bio-diesel to a maximum proportion of 30%**, bearing in mind the following conditions.

**Before beginning operating engines with bio-diesel, the following points must be adhered to:**

**See under "Dealer action" for maintenance and test procedures as well as warranty aspects.**

Destined for:	Service Manager	Parts Manager	Workshop Manager	Receptionist				Workshop
Initials								

*Strictly confidential, photocopying forbidden*

**Vehicles affected**

Vehicles "On road" and "Off road" with Cursor 8 / 10 / 13 engines

**Dealer action**

The following directions concerning vehicles with bio-diesel must be followed:

**Bio-diesel may only be mixed with normal diesel fuel in a 30% proportion.**

**The bio-diesel must comply with "prEN 14214" and "DIN 51606" quality norms.**

**Maintenance:**

- The engine oil change period (with oil filter replacement) is reduced to 80 000 km Vehicles "On road" and 50 000 km for vehicles "Off road" for synthetic and mineral oil.
- The same directives also apply to the fuel filters.

**Test procedures:**

- The oil level must be checked at least once per week using the dipstick. The operator must be made aware of these test procedures. If the oil level rises, inform the "Technical service centre - Help desk" immediately.

**Warranty conditions:**

- The warranty conditions remain unchanged, on condition that all the instructions for using vehicles with bio-diesel can be seen to have been followed. Exceptions are paint damage which may occur through careless handling of the aggressive bio-diesel.

**Conversion (in accordance with "Procedure"):**

- Replacing the fuel filler cap sealing ring with a new seal which is resistant to bio-diesel.
- Replacing the heater fuel hose with a new rubber hose that is resistant to bio-diesel.

**Other:**

- Drained oil may contain esters. Drained oil must be disposed of separately.
- If the vehicle is to remain unused for several months (e.g. EuroTrakker in the winter months), before making it inoperative the vehicle must be driven to use up at least one tank full of normal diesel fuel. Following long periods of inactivity the pump injectors can become corroded because of the instability of bio-diesel.

**GUIDE LINES: Using bio-diesel in the engine results in a power loss of 5 -10 percent, whilst the fuel consumption increases by the same amount.**

**The engine oil change periods alter when using bio-diesel; see "Maintenance" in comparison with the data in the Maintenance and operational manual where it is assumed normal diesel fuel will be used.**

The heater with "D1LC" air heater manufactured by the Eberspächer company can be used with bio-diesel.

The heater with "D9W" coolant heater manufactured by the Eberpächer company must be modified before bio-diesel can be used with it.

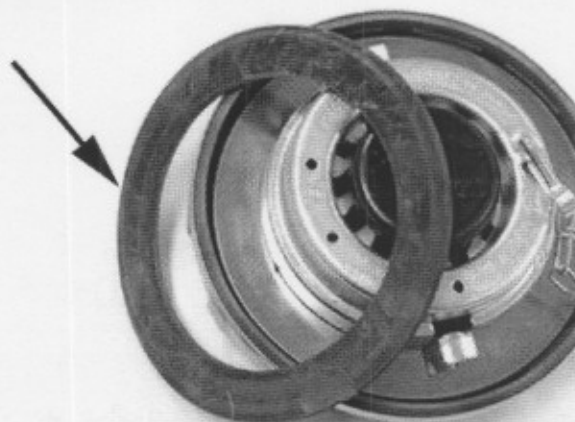
The necessary components can be obtained from the Eberspächer company.

An alternative is to build in an extra tank to hold normal diesel fuel for the heater.

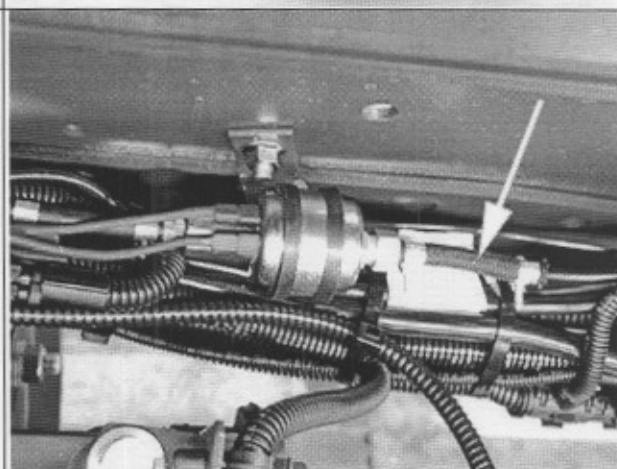
The costs for converting a heater for use with bio-diesel cannot be charged under warranty.

<b>Procedure</b>
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Replace the fuel filler cap sealing ring with a new seal that is bio-diesel resistant; see arrow.



Heater connecting hose; see arrow. Replace the heater connecting hose (mounted on the chassis) (if fitted) with the rubber hose.



<b>Parts</b>
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Ref. model / version	Old number	Qty	Description	New number	Qty
			Seal	41042424	1
			Rubber hose	41042218	1

Product Quality  
18/07/2003  
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