



## **PRESS RELEASE**

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### Groeneveld presents innovative products at Euro Bus Expo 2010

- Groeneveld Transport Efficiency presents automatic greasing, oil management and safety systems at stand number A88.
- CompAlube compact lubricating system and Oilmaster electronically controlled oil-filling system, the ultimate solution for buses.
- Presentation of prototype product Levelmaster an "at a glance", automatic, external, oil level indicator jointly developed with Volvo Bus UK.

Groeneveld Transport Efficiency that has its head office in Gorinchem (NL) and its own production plant in the Italian Cassago Brianza (Lecco) has been active in the development, production, marketing and sales of innovative products and services for efficiency and safety in transport, earthmoving and construction, railway, agriculture and industry for almost 40 years. The company has its own sales and service locations in Europe, North and South America, Morocco, South Africa, India, China, Australia and

New Zealand. Additionally, independent dealers and importers represent the company in various countries. Overall, Groeneveld is active in over thirty countries.

#### CompAlube for modern buses

Groeneveld Transport Efficiency shows, among others, the CompAlube automatic greasing system, specifically developed for modern buses with only a few greasing points. The system is very compact, as the grease reservoir, pump, electronic control unit and dosing units have been integrated into one unit. This makes the greasing system easy to install and guarantees optimum operational reliability. The CompAlube is particularly suitable for greasing fifth wheels, tailboards and stub axles.

With respect to buses and coaches, the system is applied for lubricating the independent wheel suspension. The CompAlube automatic lubricating system makes use of specifically developed Groeneveld EP-0-grease in simple and cleanly to be changed grease cartridges with a capacity of 1.8 litre. If required, the system is also available in a refillable version.

#### Oilmaster is rapidly gaining popularity

Because of the highly increased maintenance intervals and the arrival of Euro 4/5 engines with expensive exhaust after-treatment systems, the Oilmaster of Groeneveld Transport Efficiency rapidly gains popularity in the area of public transport and coaches. This advanced oil management system ensures that the engine oil is always at exactly the right level: not too low, which may lead to expensive damage of the engine, but

certainly not too high either, which may result in excessive oil consumption and damage of the exhaust after-treatment system. Besides, the Oilmaster reduces the risk of filling up with the wrong quality of engine oil. The Oilmaster is as an option available with a 6 or 12.5 litres oil tank. The Oilmaster measures the oil level in the oil sump following a fixed protocol when the engine is standing still and, if necessary, automatically adds the correct amount of oil. This is done through an electronically controlled pump, also saving the amount of oil in the memory. The Oilmaster offers the operator extra security, less oil consumption and reduced operational costs. The system offers the driver extra comfort, eliminating the classic checking of the oil level. Besides, no extra oil is used, so the environment benefits from the Oilmaster as well. It is for a good reason that by now a number of well-established coach producers delivers the Groeneveld Oilmaster ex-factory, in particular for public transport.

#### Prototype product Levelmaster

Eurobus 2010 sees the launch by Groeneveld UK Ltd of a prototype Levelmaster, an “at a glance”, automatic, external, oil level indicator for buses and coaches. Levelmaster automatically reads a vehicle’s engine oil level and relays this information to a single, tri-colour LED, mounted externally on the vehicle. This then shows amber when the level is being checked, green if the level is safe and red if it has fallen below the optimum requirement. The system does away with the time consuming, daily sump level check as well as reducing the risk to those engineers who previously carried out this inspection in proximity of moving vehicles, whilst at the same time saving oil through unnecessary

topping up. It also means that fleets can be checked visually before daily operations commence.

Levelmaster was developed in conjunction with Volvo Bus UK who specified that the system must be cost effective, be fully automatic, take account of engine drain down times and indicate the oil level status as simply as possible. They also required it to be flexible so that it could be placed in various locations depending on operators' requirements, that it included a self test system and was capable of being installed by third parties. The prototype product Levelmaster was partly based on the already well established Oilmaster system.

Once approved the system was subjected to a three month trial installation which proved highly successful as a result of which Levelmaster is now approved by Volvo Bus UK for selected models.

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Photo caption: Oilmaster product photo



Photo caption: CompAlube product photo



Editorial note:

for additional information, please contact Gary Hewitt, Managing Director Groeneveld UK Ltd, tel 01509 600033 or [g.hewitt@groeneveld-groep.com](mailto:g.hewitt@groeneveld-groep.com) or Ron den Engelsen, VP Marketing, Communications & Business Development of Groeneveld Groep B.V, tel: +31 183 641 400 or +31 6 53 178 784.