

## **German district takes refuse collection in-house, starting from scratch, and with help from Allison and DAF**

*In July 2011, the district of Aurich, in Germany, took over waste collection for nearly 200,000 inhabitants. Since then, the municipality hired 16 new drivers and invested in 11 new DAF trucks with Allison fully-automatic transmissions.*

**AURICH, Germany** – The Aurich district is a popular North Sea destination, with fresh breezes, windmills and cow-filled pastures dotting the almost 1,290 km<sup>2</sup> region located in the northwestern-most part of Germany. Since mid-2011, the municipality has been responsible for collecting its own paper, residual and organic waste. This change resulted from a study which showed that the cost to handle refuse collection directly from the municipality would be less expensive, more consistent with the costs of a private company. By doing this work itself, the district of Aurich has been able to reduce garbage fees by about 9.5 percent in 2011 and an additional 2.6 percent more in 2012, for a total decrease of just over 12 percent for the 100,000 homes in popular seaside cities like Norddeich, Neßmersiel and Greetsiel, as well as the East Frisian Island of Norderney.

For this refuse collection effort, Aurich hired 19 people – 16 of them drivers – and invested about 2.1 million euro in 11 new DAF vehicles with Allison 3000 Series fully-automatic transmissions. The fleet's technical director, Carsten Appelhoff, had two important criteria during the tender: a really robust transmission and proximity to the workshop. "Every truck empties an average of 800 refuse bins daily. Therefore, we need robust vehicle drivetrains, capable of enduring 1000 stops per day, even with a trailer. Additionally, quick reachability and a good cost-benefit ratio for routine maintenance are crucial so vehicle downtime and costs are as minimal as possible," he said.

With DAF Truck Sales & Service Dealer™ Rudolf Bohlje Kraftfahrzeuge from Hesel, Appelhoff found the perfect partner. The dealer offered him vehicles which met the tender's demands exactly, and the workshop is only 15 km away from his depot.

Ten DAF CF 75s with 228 kW (310 PS) and side-loader bodywork from HS Fahrzeugbau now service the mainland in one-man operation. Seven trucks feature a loader with a permanent mounted container, and three are equipped with "CWS," a container loading system. Each vehicle has covered about 48,000 km with 1,700 operating hours on average, the numbers varying slightly depending on operating area.

For Norderney, a DAF LF 55 with 165 kW (220 PS) and rear-loader bodywork was purchased, since a smaller vehicle was needed for the island's narrow alleyways. The waste is loaded in bulk containers and shipped on a container ship to Norddeich on the mainland and afterwards transported to the treatment plant of MKW GmbH & Co. KG.

We are very satisfied with the vehicles, and there have been no objections or huge repairs to date," said Appelhoff. "Our drivers especially like the trucks with fully-automatic transmissions, because they don't have to worry about the clutch and can have both hands on the wheel. That's an enormous relief," he concluded.

Vehicles equipped with Allison fully-automatic transmissions are ideally suited for refuse collection because they ensure an efficient operation cycle and reduced maintenance cost. Allison's Continuous Power Technology™ features a patented torque converter and uninterrupted shifts for superior vehicle productivity. The torque converter offers not only excellent vehicle startability, but also eliminates costly starting clutch repair and provides drivetrain protection against torque shock and vibrations. Since clutch replacements aren't necessary, fully-automatic transmissions save operators money, while reducing vehicle maintenance downtime.

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#### **Waste collection vehicles on the East Frisian mainland**

|                           |   |
|---------------------------|---|
| Chassis                   | DAF CF 75   |
| Engine                    | Paccar PR228 9,2 liters   |
| Engine rating             | 228 kW (310 HP)   |
| Transmission              | Allison Transmission, 3200 model  |
| Exhaust emission standard | Euro 5  |
| Gross vehicle weight      | 26,000 kg   |
| Wheelbase                 | 3900 mm solid container, 4200 mm changing container   |
| Bodywork                  | 7 vehicles with sideloader „HS Speedline“ and solid container from HS Fahrzeugbau<br>3 vehicles with sideloader CWS and container changing system by HS Fahrzeugbau |

#### **Waste collection vehicle on the island Norderney**

|                           |                                  |
|---------------------------|----------------------------------|
| Chassis                   | DAF LF 55                        |
| Engine                    | Paccar GR165 6,7 liters          |
| Engine rating             | 165 kW (220 HP)                  |
| Transmission              | Allison Transmission, 3200 model |
| Exhaust emission standard | Euro 5                           |

|                      |  |
|----------------------|--|
| Gross vehicle weight | 15,000 kg                                |
| Wheelbase            | 3800 mm                                  |
| Bodywork             | Rear loader HS Olympus by HS Fahrzeugbau |

### About Aurich's waste company

The waste company of Aurich is responsible for the collection of the blue (paper), black (residual waste) and green (organic waste) refuse bins for about 103,000 households. Every collection of the micro-chipped organic and residual waste bins is tracked electronically by the ident-system. Furthermore, waste collection vehicles register every fill. Each year, around one million organic and residual waste bins and 1.2 million paper bins get emptied by Aurich's 16 drivers.

### About Allison Transmission

Allison Transmission is the world's largest manufacturer of fully-automatic transmissions for medium- and heavy-duty commercial vehicles, medium- and heavy-tactical U.S. military vehicles and hybrid-propulsion systems for transit buses. Allison transmissions are used in a variety of applications including on-highway trucks (distribution, refuse, construction, fire and emergency), buses (primarily school and transit), motor homes, off-highway vehicles and equipment (primarily energy and mining) and military vehicles (wheeled and tracked). Founded in 1915, the Allison business is headquartered in Indianapolis, Indiana, U.S.A. and employs approximately 2,800 people. Allison has manufacturing facilities and customization centers located in China, The Netherlands, Brazil, India and Hungary, with a global presence, serving customers in North America, Europe, Asia, Australia, South America and Africa. Allison also has approximately 1,400 independent distributor and dealer locations worldwide. More information about Allison is available at [www.allisontransmission.com](http://www.allisontransmission.com).

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### Pictures



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In Aurich, 10 DAF CF 75 with 228 kW (310 HP) and side-loader bodywork and one DAF LF 55 with 165 kW (220 PS) and rear-loader bodywork were purchased for refuse collection.



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For waste collection, Aurich hired 16 drivers and invested 2.1 million euro in 11 new DAF vehicles, all equipped with Allison 3000 Series fully-automatic transmissions.



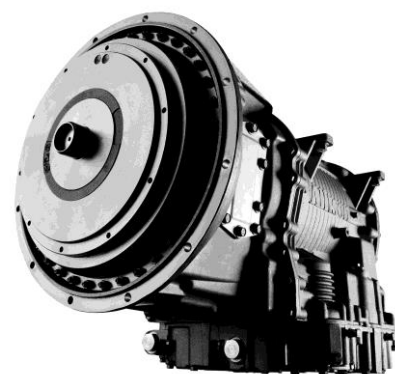
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An Allison-equipped DAF waste collection vehicle in service at the leaning tower in Suurhusen, in the popular North Sea destination of Aurich.



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Since July 1, 2011 paper, residual and organic waste is collected by the district Aurich autonomously, supported by 11 DAF waste collection vehicles with Allison fully-automatic transmissions.



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Allison 3000 Series fully-automatic transmissions protect the drivetrain and require no clutch replacement.

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statements are made include, but are not limited to: risks related to our substantial indebtedness; our participation in markets that are competitive; general economic and industry conditions; our ability to prepare for, respond to and successfully achieve our objectives relating to technological and market developments and changing customer needs; the failure of markets outside North America to increase adoption of fully-automatic transmissions; the discovery of defects in our products, resulting in delays in new model launches, recall campaigns and/or increased warranty costs and reduction in future sales or damage to our brand and reputation; the concentration of our net sales in our top five customers and the loss of any one of these; risks associated with our international operations; brand and reputational risks; our intention to pay dividends; and labor strikes, work stoppages or similar labor disputes, which could significantly disrupt our operations or those of our principal customers. Although we believe the expectations reflected in such forward-looking statements are based upon reasonable assumptions, we can give no assurance that the expectations will be attained or that any deviation will not be material. All information is as of the date of this press release, and we undertake no obligation to update any forward-looking statement to conform the statement to actual results or changes in expectations.