

WANTIJ



Euro VI, dry cargo vessel, 86m by 9m



Innovation

- First commercial freight vessel with clean EURO VI, Stage V truck engine
- After treatment unit with both Diesel Particulate Filter and SCR catalyst



Emission reduction

- CO : 94%
- PM : 97%
- NO_x : 95%
- HC : 98%



Assets

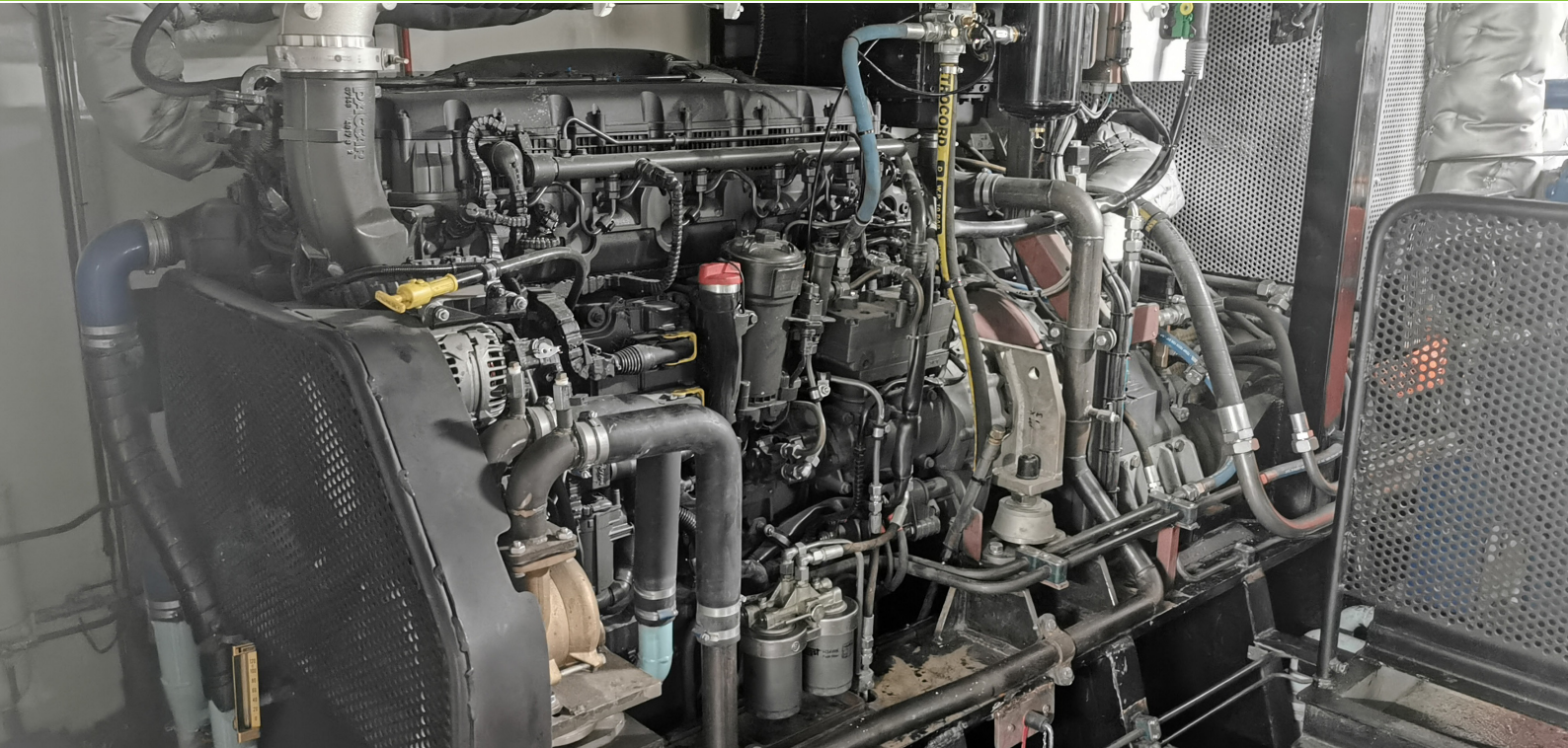
- Significant reduction of fuel consumption
- Longer maintenance interval
- Reduced noise level
- Clean vessel (no soot)
- Real-time online monitoring



Next steps

- Replace diesel by bio-fuel/HVO or synthetic fuels
- Retrofit smaller/older vessels
- Hybrid solutions
- Modular applications

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Technology brief

- Make : Paccar
- Model : MX13-355
- Rated power : 355 kW / 480 hp
- Speed : 1.650 rpm
- Bore x stroke : 130 x 162 mm
- Displacement : 12.9 litres
- Emission level : Euro VI / Stage V IWW
- Fuel consumption : 186 g/kWh
- Fuel system : Common Rail injection system
- Air system :
 - turbo with variable geometry (VGT)
 - water cooled Charge Air cooler
- Emission System :
 - Exhaust Gas Recirculation
 - Diesel Particular Filter (DPF)
 - Selective Catalytic Reduction (SCR)
- Real time on-line monitoring



Required for deployment

- Integration of IWT in the Renewable Energy Directive and further incentives for biofuels and synthetic fuels
- Funding and financing solutions to provide a business case for retrofitting existing vessels
- Funding for R&D projects for development of hybrid solutions and modular applications



More information

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Green Inland Shipping Event

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