

TUGS TOWING & OFFSHORE NEWS SPECIAL “WADDENSTROOM”



On Thursday November 16, 2023 the new build Damen Shipyards Hardinxveld yard number 571673, Multicat 3713 “[Waddenstroom](#)” was christened at the Gemeentehaven of Hardinxveld-Giessendam

[Waddenstroom](#) is an impressive Multicat 3713 Multi purpose workboat - DP2 - IMO TIER III, that boasts exceptional features. With her dimensions of 36.66 x 12.50 meters, she has ample space to accommodate a variety of marine projects.

[Waddenstroom's](#) bollard pull is around 35 tons, making her an excellent option for towing, dredging, or anchor handling. Her cranes are exceptionally strong, ensuring that she can handle even the most challenging of marine operations.

The innovative MuC 3713 [Waddenstroom](#) is designed to operate in unrestricted waters. The diesel-electric driven vessel has great manoeuvrability due to its two rudder propellers, and features a direct drive propeller and two pump jets designed for DP2 functions. In line with MLC regulations, the comfortable cabins are above the waterline. Two large deck cranes are provided.

With an shallow draft of only 2.30 meters, **Waddenstroom** can navigate through shallow waters with ease, making her ideal for projects in restricted areas. Whether for offshore wind support, salvage operations, or plough dredging, **Waddenstroom** is a versatile and reliable vessel that can tackle a wide range of marine projects with ease.

Advertisement



The Damen Multicat 3713 **Waddenstroom** is one of the third MultiCat vessels of Van Wijngaarden Marines Services fleet. Van Wijngaarden Marine Services is proud to extend her fleet with this new Damen Multi Cat 3713 **Waddenstroom**. VWMS is a long-standing and valued client of Damen. Their fleet of workboats includes five Damen Shoalbusters and in 2019 it took delivery of its first Damen Multi Cat, a 30-metre DP1 MuC 3013.



The vessel is equipped for maximum sustainability. VWMS has opted for a Damen Marine NOx Reduction System with its advanced active emissions control system using selective catalytic reduction (SCR), to make it IMO Tier III certified.

Additional capabilities that will be added include the steelworks required to accommodate multiple A-frames to do ploughing and similar works. The 190m² deck is also being modified to allow for the fixing of mission containers.

Delivery just six months after contract signing

On the 24th May Van Wijngaarden Marine Service has signed the contract with Damen Shipyards for the delivery of this new Damen Multi Cat 3713 workboat. Based on the proven Multi Cat 3013, the 3713 is a new addition to Damen's Multi Cat. The new design will be relevant to any operator looking for a multi-purpose vessel optimised for dredging operations in very shallow waters.



Sitting at the table: Jeroen van Woerkum (Commercial Manager, Damen Shipyards Hardinxveld), Peter van Wijngaarden (Managing Director, Van Wijngaarden Marine Services B.V.). Standing behind: Jos van Woerkum (Managing Director, Damen Shipyards Hardinxveld), Bas Ort (Chairman, Netherlands Maritime Technology Association), Wim van Wijngaarden (Owner, Van Wijngaarden Marine Services B.V.)

She is classed Bureau Veritas; I □ Hull • MACH Offshore Support Vessel (Tug, Anchor handling) Tier III Unrestricted navigation • AUT-UMS; DYNAPOS AM/AT R (DP2)

Emission regulations: IMO tier III certified

Nat. Authorities : Dutch flag, Unrestricted service

History

Van Wijngaarden Marine Services has been founded by Wim van Wijngaarden in February 1974. At that time auxiliary equipment was being rented out to the dredging industry in The Netherlands. Already in 1975, the first miles were sailed abroad. In the United Kingdom we executed the first assignment. Since then many more projects were executed across the border.

Van Wijngaarden Marine Services is a firm family-owned company. The daily management is in the hands of the second generation of the family. The full team exist currently of 42 permanent employees and a variable number of temporary workers.



W

Van Wijngaarden Marine Services BV

**The Right Partner...
all over the world.**

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Van Wijngaarden Marine Services offers with her extended fleet maritime support to the dredging and renewables industry, offshore companies (oil & gas) and to the inland and open sea shipping. Amongst others we take care of towing services, transport, anchor handling and survey activities. We work worldwide to be of service to our clients in a professional and sustainable way.

We have a fleet of 19 ships for deep-sea, coastal and inland waters. They assist worldwide at dredging and a variety of offshore projects. In addition to that we execute towing trips. We support with the construction and maintenance of offshore and renewables projects, like windfarms at sea. Other services are geotechnical activities and seabed levelling in harbours and fairways.

Quality, Health, Safety and Environment (QHSE)

Unceasing care of quality, health, safety and environment is pivotal. Our sea-going vessels sail under classification of Bureau Veritas and meet the standards of the flag state. Continuously we strive to improve the awareness and behaviour of our employees concerning quality, health, safety and environment. Regular internal and external audits, regarding MLC – ISM – IMCA, as well as training of crews and office staff contribute to that.



The Waddenstroom prepared for the christening ceremony at the Hardinxveld-Giessendam port



Sponsor lady of the MultiCat **Waddenstroom** Mrs Corry van Wijngaarden-Dekker and her Great-granddaughter Leandra Biesheuvel received the flowers

The MultiCat **Waddenstroom** was handed over by yard director Mr. Jos van Woerkum to the new owners Van Wijngaarden Marine Services



Dimensions:

The “**Waddenstroom**” has a length overall. of 36.66 meters, with a beam overall of 13.45 meters and a moulded beam of 12.50 meters She has a moulded depth at half-length of 3.74 meters a shallow draft of 2.30 meters at 100 tons and a maximum draft of 2.60 meters at 230 tons. She has a grt. of 499 tonnes.



Propulsion system:

A DP2 system will ensure that the vessel can meet the requirements of the renewables sector. The innovative propulsion design features two 360 degrees Veth VZ900 – FP 2x 825 ekW E-motor, dia 1600 mm propeller Azimuth thruster thrusters powered by two Cat C32 ACERT – 940 ekW / 1175 kVA; Total power 1880 ekW / 2350 kVA, 60 Hz, 480 VAC plus one conventional propulsion arrangement aft powerd by one Caterpillar C32 ACERT with a total power of 746 bkW at 1800 rpm Via an one Reintjes WAF 562L - 5,947:1 gearbox to an one Promarin fixed pitch propeller. Combined with two Veth CJ1000V, 325 ekW E-motor compact jet bow thrusters in the bow 360° rotatable. Together these will provide excellent positioning capability. The diesel-electric propulsion system will ensure efficient fuel consumption. Preparations for the future connection of a deck-mounted containerised battery package will be installed for zero-emission operations. The bollard pull will be up to 35 tonnes and a free sailing speed of 10 knots..

Fore Caterpillar Main generator



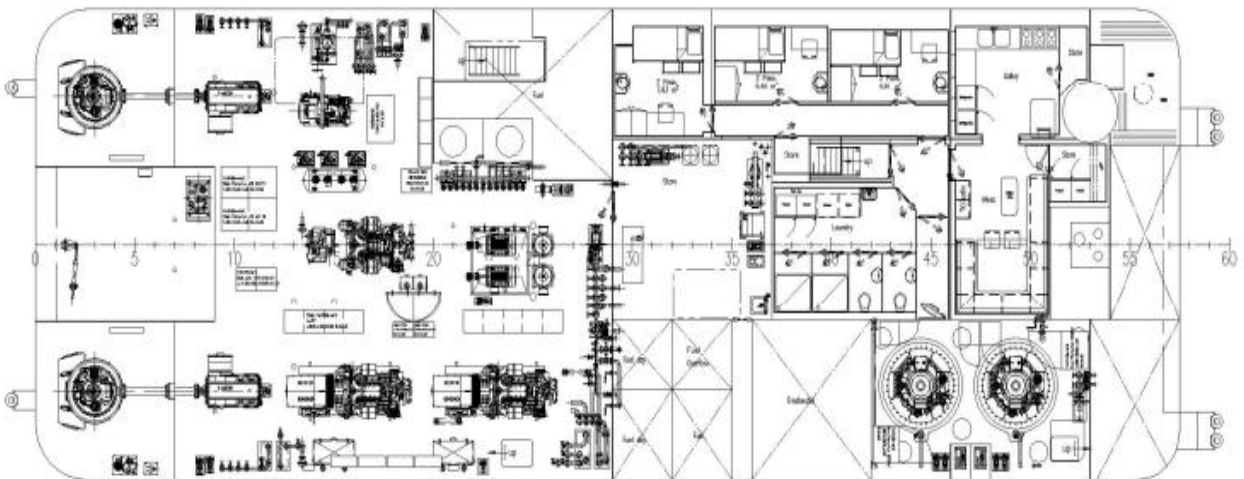
Aft Caterpillar Main generator



Caterpillar Conventional Propulsion Engine



Below Maindeck



Bow thrusters



Auxiliary equipment:

The auxiliary equipment consist of one Caterpillar Generator set of Caterpillar C04.4, 86 ekW, 107 kVA each, 50 Hz. One Micro Grid 1x 110 kVA from 60 Hz to 50 Hz. One Facet CPS2.5B MKIII bilge water separator. One Azcue CA80/20A fuel transfer pump has a capacity of 50 m³/hr at 4.75 bar. One Alfa Laval MIB503 fuel oil separator with a capacity of 1000 l/hr. One Azcue CA80/20A fresh water pump with a capacity of 50 m³/hr at 4.8 bar. One Selmar type Blue Sea 3500/plus Sewage treatment system. Three Hydraulic power 128 ekW Emotors, 480 V AC, 60 Hz. A general boxcooler system and LED lighting



Propulsion electromotor



Caterpillar harbour generator set.



Main switchboard



Distribution board





Freshwater maker



Air compressor set



Sewage Pump arrangement



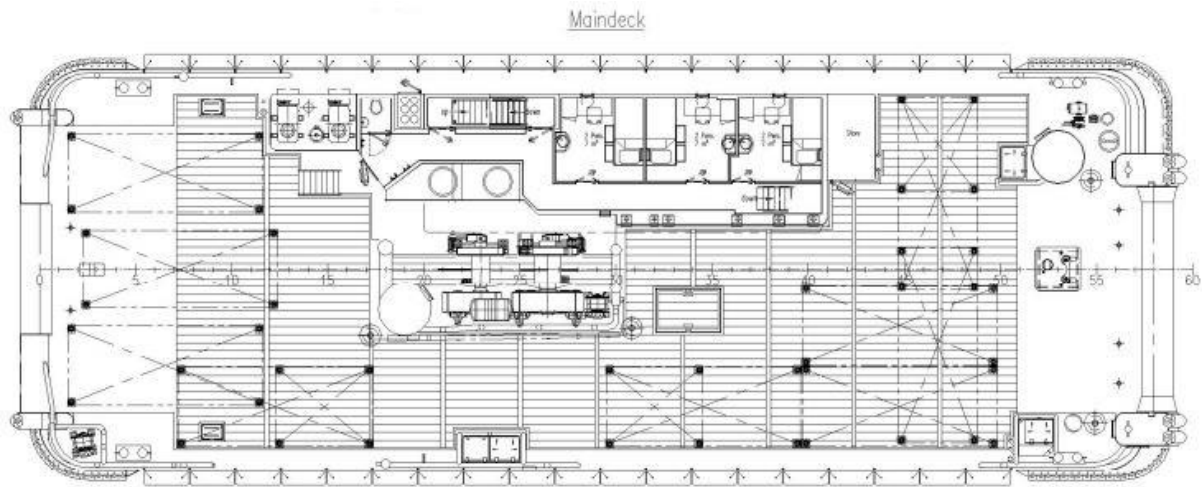
Fuel oil separator



Bilgewater separator



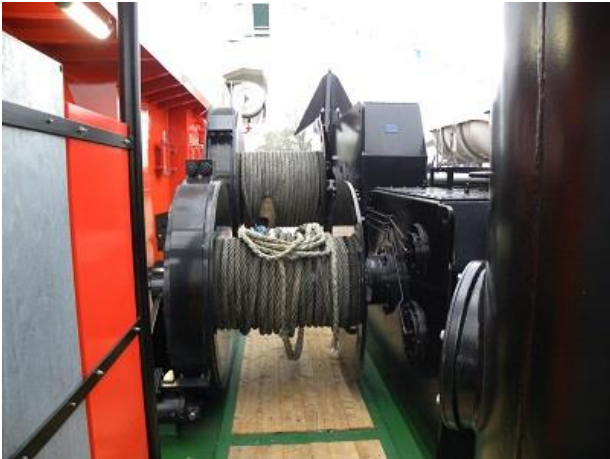
Pump arrangement

Deck layout:

In keeping with the Damen Multi Cat ethos, the MuC 3713 is fitted with cranes fore and aft, with a capacity of 13.5 tonnes @18.5 metres. Anchor handling, towing and tugger winches, together with bow and stern rollers and towing pins, will enable it to undertake a wide range of support roles both offshore and, with its minimum draft of just 2.3 metres, close to shore.

The vessel has the following deck equipment. One Pool anchor HHP of 415 kg and one spare anchor. The anchor winch is from Kraaijeveld KAB-1-H-20.5D and hydraulically driven. The Anchor Handling winch mounted on the work deck is from Kraaijeveld type KA-30/2-H-TR and has a pull capacity of 125 ton at 8 m/min and 30 ton at 32 m/min with a BHL of 150 ton at first layer and a wire capacity of 950 meters and with a diameter of 36 mm. The towing winch also mounted on the work deck is from Kraaijeveld type KA-20-H-TR and has a pull capacity of 46 tons at 12 m/min and 13 ton at 24 m/min with a BHL of 100 ton at first layer and a wire capacity of 600 meters and with a diameter of 36 mm. The two Dromec HPV-12000 tugger winches have a capacity of 12 tons at 5 m/min. A bow roller of 1200 mm with a SWL 165 ton and a length 7 meters. The HS-Marine AKC 410 HE3 deck cranes has a lifting capacity of 13.5 ton at 18 meter with a winch kit fore with a capacity of 10 ton SWL and a wire length of 80 meters. Further is a Tugpin GP2S1-WP towing pin set mounted with a capacity of 100 ton SWL. The vessel is also mounted with a sternroller with a diameter of 1,200 mm a length of 4 mtrs and a 100 ton SWL. The maximum deckload is 12 ton/m² with a free deck space of 190 m².





Towing Winch



Tugger winch



One of the Fairlead sets



Fuel supply winch



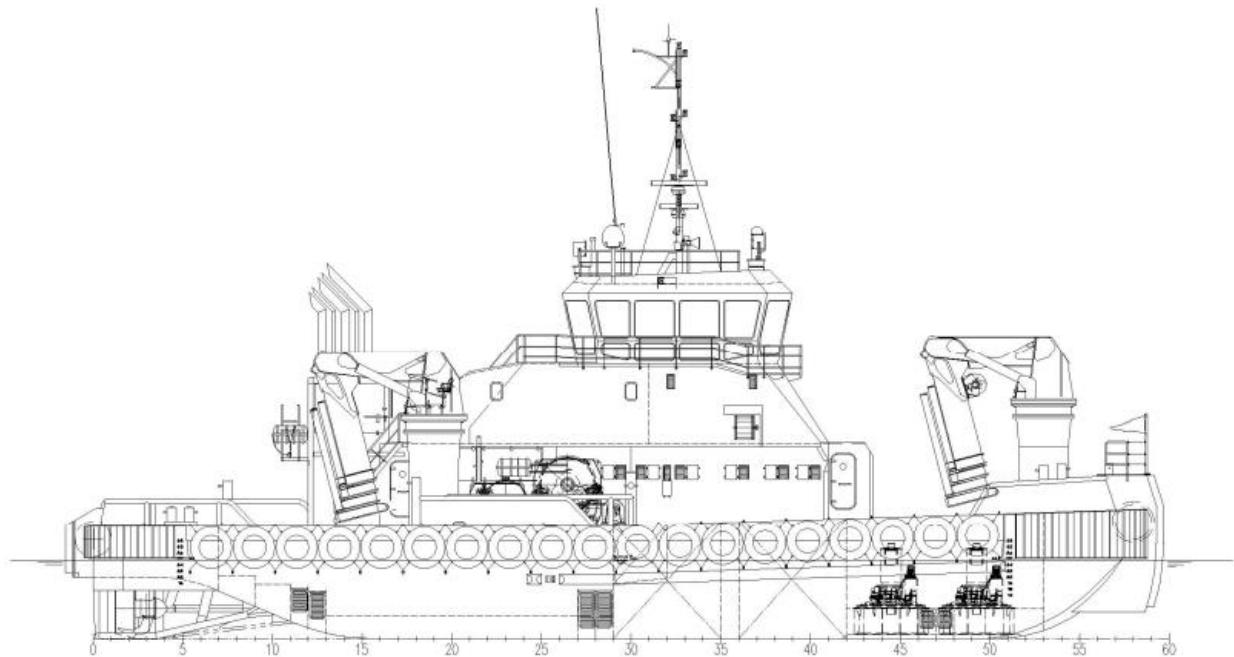
Forward Crane



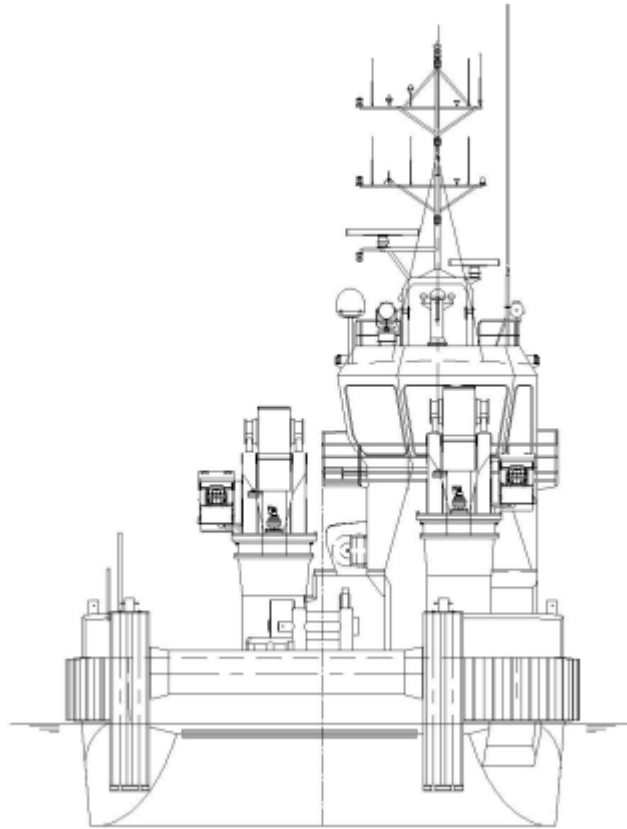
Aft Crane



Ship's Bell

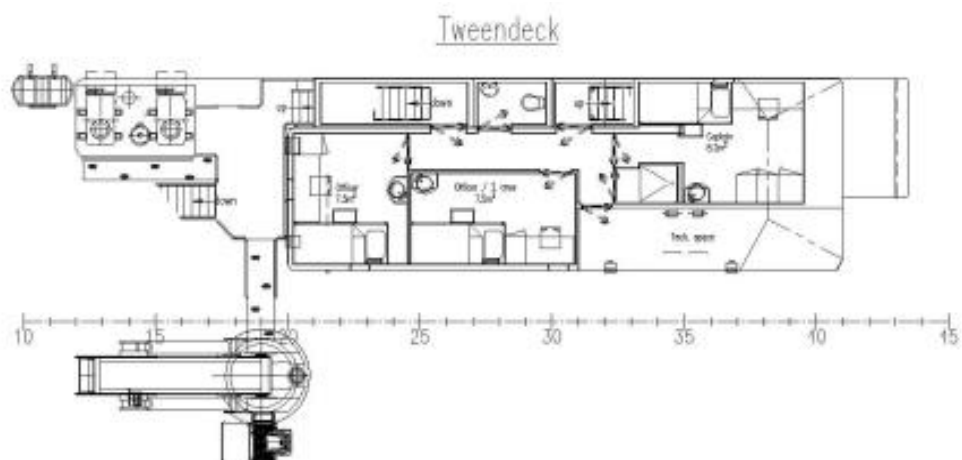
***Tank arrangements/capacity:***

The tug consist tanks for the following liquids; Fuel tanks capacity of 155.00 m³; Fresh water tanks with a capacity of 57.00 m³; Lubrication oil with a capacity of 480 m³; Hydraulic oil with a capacity of 5.00 m³; Sewage tank with a capacity of 19.00 m³; Dirty oil tank with a capacity of: 4.20 m³; Bilge water tank with a capacity of 4.30 m³; Technical water tank SB fore with a capacity of 32.00 m³; Technical water CL with a capacity of 26.00 m³ and a Urea with a capacity of 10m³



Accommodation:

The **Waddenstroom** is being fitted out to the highest standards. As part of Van Wijngaarden Marine Services' (VWMS) commitment to crew welfare, crew capacity and comfort is most important. Comfortable heated and air-conditioned accommodation for a total of 16 persons is facilitated. Three officer cabins and three double crew cabins are positioned in the deckhouse above the waterline according MLC regulations. One officer cabin can be converted in a 2 crew cabin. Three double passenger cabins, mess, galley and laundry are provided below main deck.





Captain bedroom cabin



Chief Engineers bedroom cabin



Double bedroom cabin



Double bedroom cabin



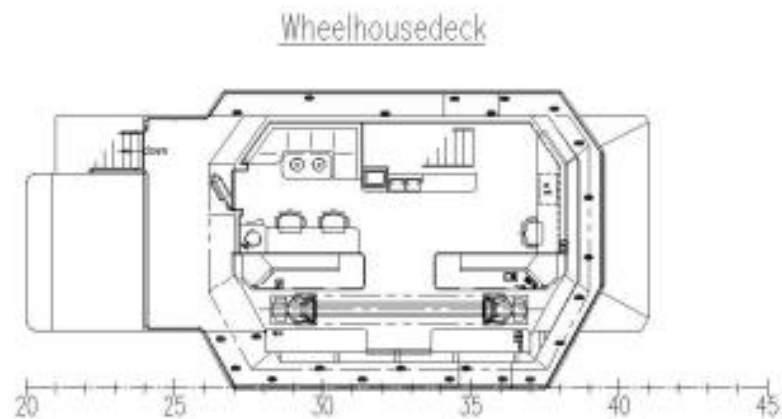
Mesroom



Galley

Nautical and Communication Equipment:

The bridge is equipped with extensive nautical and communication equipment according GMDSS: Area 3; Dynamic positioning Praxis Mega-guard; Two Searchlights Pesch 2000W; One Magnetic Compass Cassens & Plat, Reflecta 1; One Radar system Furuno FAR-2218BB; One Radar system Furuno FAR-1518BB; One ECDIS Furuno FMD3100; One Autopilot Simrad AP-70 MKII; Three Gyro compass Anschutz, Standard 22 compact; One GPS Furuno, GP-170D; One AIS Cobham Sailor 6280; One Echosounder Furuno FE 800; One Speedlog Skipper EML-224; One Intercom Phonotech CIS3101; One Watch alarm Furuno BR-500; Three VHF / DSC Cobham Sailor 7222; Two Handheld VHF sets Entel HT649; One SSB Cobham, Sailor 6310; Two Iridium Lars Thrane, LT3100S; One Navtex Cobham, Sailor 6391; One Radio / TV aerial Seas systems, SEAS-6000; One Anemometer Observator, OMC 115; One Satellite TV system Intellian, I6W; One CCTV Hikvision.



Bridge arrangement

Two chairs is fitted on a sliding rail at portside side for manoeuvring consoles of the bridge. The bridge chart table is found at the starboard side aft bridge. The very spacious bridge has a beautiful good looking layout with an around view over the fore deck, aft deck and sides. This Damen Multicat 3713 is again built to the highest standards.



Fore ship Bridge Console



Starboard Fore Ship Bridge console



Ceiling Bridge Console



Chart Room

Christening Ceremony



Baptism scissors



Sponsor Lady's Corry & Leandra



Bottle of Champagne prepared for the christening



Bottle breaks on ship's hull *(photo G.J. de Boer)*



Change flag from yard to owners



A lot of spectators visited the Waddenstroom



The godmothers of the **Waddenstroom** Mrs Corry van Wijngaarden-Dekker and her Great-granddaughter Leandra Biesheuvel received a gift from the Damen Hardinxveld director Mr. Jos van Woerkom



Corry & Leandra thanks the yard for the gifts and told the beginning of Van Wijngaarden Marine Services B.V.



Director Van Wijngaarden Marine Services B.V. Peter van Wijngaarden thanks the yard in his speech for the excellent corporation and the delivery of this beautiful vessel.



A proud family



A special gift for the crew. A very nice picture of the **Waddenstroom**, A clock-barometer set and the broken bottle neck from the christening ceremony



A well-prepared buffet was opened by Managing director of Van Wijngaarden Marine Services B.V. Mr. Wim and Ms. Corry van Wijngaarden

Towingline thanks the owners – Van Wijngaarden Marine Service Services BV – Hardinxveld-Giessendam and the yard – Damen Shipyard for their hospitality and invitation for the christening ceremony of the MultiCat 3713SD “**Waddenstroom**”



Photo: R&F van der Hoek

Towingline/Tugs Towing & Offshore News wish the vessel, the owner and her crew in all-weather work circumstances safe voyages



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