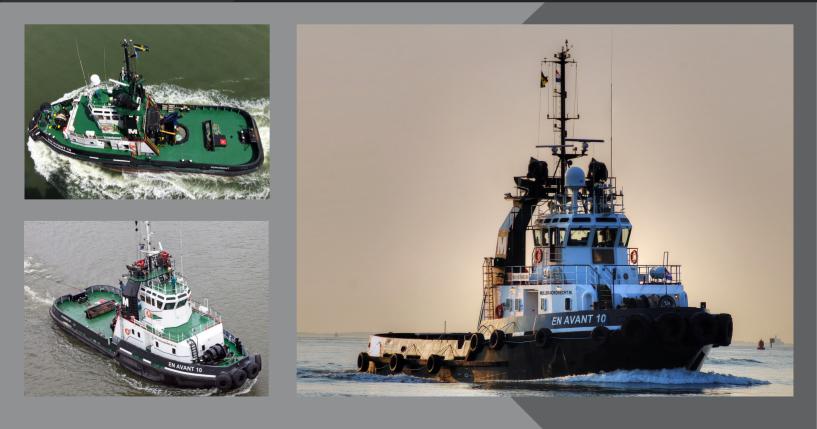




State-of-the-art, reliable, optimised performance

Since the foundation in 1918, MULLER has been building on expertise, reliability and inventiveness in the maritime business. With specialised marine equipment, we can offer you a tailored fit competitive towage service for your specific needs. MULLER performs core activities such as Harbour assistance, Coastal&Deep-sea towage, salvage and Heavy-lift&Transport. MULLER is owner of its own inland & seagoing tugs up to 70 tons BP, seagoing ballastable heavy-lift pontoons to 16.500 tons DWT, it's own harbour and yard in Dordrecht. Our crew is the driving element behind all those resources, with knowhow, no-nonsense mentality, experienced and utmost dedication to offer extensive support to the offshore and marine industry.



If your transport seems impossible. Our job is just gettin' started.

The world in tow

FiFi 1 - Water Spraying

Water, Foam (12m3)

3600m3/hr

2 x Kvaerner 1200m3/hr each

Waterspraying system fitted

 CO_2 in the engine room

Kvaerner FiFi-pump B 1470-002

Fitted w. 2 booms with dispersant disposers





GENERAL INFORMATION

Year of construction Builder Build type Class Classification

Class Register nr

Port of registry

Flag

IMO

Call sign

2002 Astilleros Armon S.A., Vigo, Spain ASD Seagoing&Harbour tug + FiFi ship Bureau Veritas I & HULL & MACH Tug Fire fighting ship 1 - Water Spraying Unrestricted navigation & AUT-UMS 02252A Netherlands PCPP 9264386 Dordrecht

MAIN PARTICULARS

Length o.a. Breadth o.a. Maximum draught Air draught Gross tonnage Nett tonnage

30.00 m 10.00 m 4.80 m 22.39m 358 T 107 T

PERFORMANCES

Bollard Pull max Speed

13.5 knots

PROPULSION SYSTEM

Main engines Total power Gearboxes Azimuth Thrusters Propellors Nozzles Bowthruster

2 x CAT Type 3516B TA-HD 4.000 hp (2.983 kW) at 1800 rpm 2 x Reintjes LAF 741 / 2.033:1 2 x Schottel SRP1212 FP 2 x 2300 mm fixed pitch Schottel RP, pressurised 1 x Schottel ST110LK 275HP

AUXILIARY EQUIPMENT

Generator Engine sets Generator sets Capacity Bowthruster aux. engine General transfer pumps Cool water pumps Fuel separator Luboil separator

2 x Caterpillar 3304B T 2 x Caterpillar SR4 106 kVA each 50Hz, 230/400 V 1 x Caterpillar 3406 2 x ABB pump Azcne 70m2/hr 2 x ABB MN 50-125 Alfa Laval MAB 104-B24 1,6T/m3 Alfa Laval MAB 104-B24 1,6T/m3

2 x 570 kg Stockless anchor

22mm - 137,5 m short link

Waterfall type

120T

120T

0.93 ton at 12,94 m, 10.7T/m

Bi Kateak, hydraulic, 3,5T - 54m/min

Bi Kateak, hydraulic, 18T - 20m/min

Bi Kateak, hydraulic, 25T - 14m/min

2000mm, diam. 711mm, SWL 30 tons

800m - ø 44mm - MBL 1450 kN

800m - ø 44mm - MBL 1450 kN

Bi Kateak, hydraulic, 5T

Palfinger PK12080M BS1.2 remote controlled

Dyneema rope, ø 80mm, 100m length MBL 150T

Steel wire galvanised 6x36WS IWRC RHOL 1960N/mm

Steel wire galvanised 6x36WS IWRC RHOL 1960N/mm

DECK LAY-OUT

Anchor Chain Deck crane

Escort winch

Towing winches Main winch - Brake holding force - Towing wire

Second winch - Brake holding force

- Towing wire

Capstan roller head Stern roller

REDERIJ T. MULLER B.V. part of the MULLER DORDRECHT group Visiting address: Merwekade 82-83 3311TH Dordrecht The Netherlands

FIRE-FIGHTING EQUIPMENT

FiFi level FiFi monitors FiFi system FiFi pump capacity Spraying system Deluge protection Internal FiFi system Anti polution

TANK CAPACITIES

Fuel Oil (MGO) 273,00 m³ Fresh Water 54,24 m³ 12,00 m³ Foam 5,10 m³ Lub Oil 5,15 m³ Dirty Oil 5,15 m³ Engine Oil Gear Oil 7,51 m³ 7,51 m³ Hydraulic Oil Water Ballast 7.69 m³

ACCOMODATION

Heated and air-conditioned living spaces for 10 persons, consisting of a galley and mess room, captain's cabin, C.E cabin and a 1st officer cabin, officers sanitary facilities on the main deck, four double crew cabins, and crew's sanitary facilities below deck.

NAUTICAL & COMMUNICATION EOUIPMENT

GMDSS area Searchlights Compass Radar system GPS Autopilot Echo sounder VHF Radio Telephone VHF Handheld Navtex AIS SART Communication ECDIS system Weather system

CONTACT DETAILS

E-mail, VSAT E-mail Office Telephone Bridge VSAT Telephone Iridium Telephone **Telephone Office**

A1 A2 A3 equipped 2 x Seematz 1000W 1 x Kotter type / 1 x gyro compass Furuno FR 1505 mk III + JRC 2253 IRC Robinson APS mk III Suzuki ES 1025 2 x Sailor RT 5022 + DSC, 25 Watt 2 x Axis-50 IRC NCR 330 SAAB R4 McMurdo S4 VSAT - Iridium - SSB - Phone 2 x Transas ECDIS system Meteogroup SPOS onboard

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60.2 tons