



**21 TON
BOLLARD PULL**
harbour and seagoing tug

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 120 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



EN AVANT 7

harbour and seagoing tug



GENERAL INFORMATION

| | |
|----------------------|---|
| Year of construction | 1981 (2019, Refurbished / new engines) |
| Builder | Damen Shipyards Gorinchem |
| Build type | Damen Stantug Mk 4 |
| Class | Bureau Veritas |
| Classification | I ✳ HULL • MACH Tug Unrestricted Navigation • AUT-UMS (SS) |
| Class Register nr | 87C057 |
| National Authorities | Dutch Shipping Inspection 200nm coastal continuous service |
| Flag | Netherlands |
| Call sign | PBEB |
| IMO | 7625483 |
| Port of registry | Dordrecht |

MAIN PARTICULARS

| | |
|----------------------|--------------------------------|
| Length o.a. | 22.50 m |
| Breadth o.a. | 6.80 m |
| Min./Maximum draught | 2.80 - 3.10 m |
| Air draught | 15.50m / 8,80 m (lowered mast) |
| Gross tonnage | 108 T |
| Nett tonnage | 32 T |

PERFORMANCES

| | |
|------------------------|------------------|
| Bollard Pull cont./max | 20,0 / 21,0 tons |
| Speed | 12,5 knots |

PROPULSION SYSTEM

| | |
|--------------------|---------------------------------|
| Main engines | 2 x Mitsubishi type S6R-Z3MPTAW |
| Total power | 1.622 hp (1210 kW) at 1800 rpm |
| Gearboxes | 2 x ZF-Masson ZFW3200 / 4.077:1 |
| Type of propulsion | 2 x fixed pitch propellers |
| Propellers | 2 x 1380 mm |
| Nozzles | De Waal |

AUXILIARY EQUIPMENT

| | |
|----------------------|------------------------------------|
| Generator sets | 2 x John Deere / Stamford |
| Capacity | 63.3 kVA each 50Hz, 230/400 V |
| Fuel separator | Alfa Laval type |
| Internal FiFi system | CO ₂ in the engine room |

DECK LAY-OUT

| | |
|-----------------------|--|
| Anchor | 2 x 180 kg Pool (T.W.) |
| Chain | 17,5mm - 110 m short link |
| Anchor winch | Kraaijeveld, electric, 2T - 10m/min |
| Towing winch | Kraaijeveld, hydraulic, 20T - 20m/min |
| - Brake holding force | 50T |
| - Towing wire | 600m - ø30mm - MBL 628 kN |
| Capstan | Steel wire galvanised 6x36WS IWRC RHOL 1960N/mm |
| Sternroller | EMCE, electric, 1,5T - 14m/min, remote controlled fixed + towing pins |

TANK CAPACITIES

| | |
|----------------|----------------------|
| Fuel Oil (MGO) | 52,50 m ³ |
| Fresh Water | 6,40 m ³ |
| Bilge Water | 2,00 m ³ |
| Lub Oil | 1,00 m ³ |
| Hydraulic Oil | 1,00 m ³ |
| Water Ballast | 4,00 m ³ |

ACCOMODATION

Heated and air-conditioned living spaces for 5 persons, consisting of a galley, mess room and sanitary facilities on the main deck, captain's cabin, 1st officer cabin, C.E cabin and a double crew cabin below deck.

NAUTICAL & COMMUNICATION EQUIPMENT

| | |
|----------------------|-----------------------------|
| GMDSS area | A2 equipped |
| Searchlights | Seematz 1000W |
| Compass, Magnetic | 1 x Observator |
| Compass, Gyro | 1 x Tokimec ES-110 |
| Radar system, sea | Furuno FR 2110 |
| Radar system, inland | Alphatron IMA 608 |
| GPS | Leica Mk10 |
| Autopilot | Radio Holland Seapilot 75 |
| Echo sounder | Fishfinder 300 |
| VHF Radio Telephone | 2 x Sailor RM 2100, 25 Watt |
| VHF Handheld | 2 x Icom IC GM1500E |
| Navtex | Furuno NAV-NX500 |
| AIS | FA-150 |
| Communication | Inmarsat C - SSB - Phone |

CONTACT DETAILS

| | |
|------------------|---------------------------------|
| E-mail | ea7@muller-dordrecht.nl |
| E-mail Office | operations@muller-dordrecht.nl |
| Sat-C Bridge | 424613111@c12.stratosmobile.net |
| Telephone Bridge | +31 (0) 610 913 184 |
| Telephone Office | +31 (0) 786 392 000 |