

# EN AVANT 19

TECHNICAL INFORMATION



**65**

mt  
Bollard Pull  
Seagoing ASD Tug

**Muller.**

# EN AVANT 19

## HARBOUR | SEAGOING | TERMINAL | ESCORT & ASD

### General Information

|                                    |   |
|------------------------------------|---|
| <b>Year built</b>                  | 2025  |
| <b>Builder</b>                     | DAMEN Shipyards, Song Cam, Vietnam  |
| <b>Build type</b>                  | Damen ASD 2811, Seagoing Escorting Tugboat  |
| <b>Class</b>                       | Bureau Veritas (BV Nr: 49023N)  |
| <b>Classification</b>              | HULL I MACH Escort Tug (Bollard pull = 60t) (maximum steering force = 58 t, maximum braking force = 70 t, maximum escort speed = 10 kn) Unrestricted navigation, AUT UMS INWATER SURVEY COMF-NOISE 3, COMF-VIB 3, Clean Ship, Green Passport EU |
| <b>Port of registry &amp; Flag</b> | Dordrecht, The Netherlands  |
| <b>Callsign / MMSI</b>             | PBQF, 244406000   |
| <b>IMO</b>                         | 1082043   |

### Main Particulars

|                                 |                |
|---------------------------------|----------------|
| <b>Length o.a.</b>              | 28.57 m        |
| <b>Beam o.a.</b>                | 11.43 m        |
| <b>Depth at sides</b>           | 4.60 m         |
| <b>Draught min/max</b>          | 4.80 m         |
| <b>Gross/Nett tonnage</b>       | 306 GT / 91 NT |
| <b>Displacement (98% cons.)</b> | 550T           |

### Performance

|                          |  |
|--------------------------|--|
| <b>Bollard Pull max.</b> | 65 T ahead / 58 T astern                         |
| <b>Escorting</b>         | 58 T max steering force, 70 T max breaking force |
| <b>Speed</b>             | 13 knots   |

### Propulsion

|                           |   |
|---------------------------|---|
| <b>Main Engines</b>       | 2 x Caterpillar 3512C TA HD/D (IMO Tier 3)  |
| <b>Total power</b>        | 5168 hp (3,804 kW) at 1800 rpm  |
| <b>Azimuth Thrusters</b>  | 2 x Kongsberg Maritime US 205S P30 FP   |
| <b>Propeller diameter</b> | 2 x 2400mm fixed pitch  |
| <b>Clutch</b>             | A slipping clutch is integrated in the thrusters for manoeuvring very slowly & precisely. |
| <b>Fuel oil system</b>    | Main and auxiliary engines running on fuel acc. ISO 8217 : 2012 or ISO 8217 : 2017 - DMA. |

### Auxiliary Equipment

|                                 |   |
|---------------------------------|---|
| <b>Auxiliary Engine Sets</b>    | 2 x Caterpillar C4.4 TA   |
| <b>Generator sets</b>           | 2 x Leroy Somer LSAM 44.3 L10, cap. 107VA each                                  |
| <b>Electrical system</b>        | 230 V 1-phase, 50/60Hz / 400 V 3-phase 50Hz                                     |
| <b>General service pumps</b>    | 2 x Azcue CA-50/3A, cap. 27m <sup>3</sup> /h                                    |
| <b>Stripping pump</b>           | 1 x Azcue CA-32/05, cap. 10m <sup>3</sup> /h                                    |
| <b>Fuel transfer pump shore</b> | 1 x Azcue CA40-1B, cap. 12m <sup>3</sup> /h                                     |
| <b>Power supply</b>             | One socket fitted on main deck aft side 400V - 3p - 50Hz - 80 A (female socket) |

### Deck Lay-out

|                                |  |
|--------------------------------|--|
| <b>Free Deck Space</b>         | 70 m <sup>2</sup> - well suited for towing & material storage                          |
| <b>Deck Crane</b>              | H5 Marine, AK28/10.3 E35WL 1700kg @ 10.30 m  |
| <b>MOB/Workboat</b>            | Work Baat type Whally 400  |
| <b>Towing aft-winch</b>        | DMC - TW-H-30-200 51D - hydraulic driven   |
| <b>Capacity aft-winch</b>      | 800m length - 48mm 6X36ws IWRC RHOL 1960N/mm <sup>2</sup>                              |
| <b>High pull/ Low speed</b>    | 38T up to 9.5m/min on 2nd layer  |
| <b>Slack rope speed</b>        | 33.0 m/min on 2nd layer  |
| <b>Brake holding force</b>     | 150T on 2nd layer  |
| <b>Towing hook aft</b>         | MAMPAEY hydraulic disc type - SWL 65T  |
| <b>Towing/Escort winch bow</b> | DMC-TW-H-30-200-DD (Hägglunds) hydraulic driven escort winch with double drum 2 x 230m |

|                             |   |
|-----------------------------|---|
| <b>Capacity bow-winch</b>   | length 2 x 250mm - dyneema/strongline                           |
| <b>High pull/ low speed</b> | 9.5m/min on 2nd layer   |
| <b>Maximun speed</b>        | 32.5 m/min on 2nd layer   |
| <b>Towing Pin</b>           | Tug Pins - 100T SWL Guide pins - 78mm Fork with various inserts |
| <b>Navigation mast</b>      | Foldable by hydraulic system for lower total height             |

### Tank capacities

|                              |                     |
|------------------------------|---------------------|
| <b>Fuel Oil (MCO)</b>        | 95.0 m <sup>3</sup> |
| <b>Fresh Water</b>           | 15.0 m <sup>3</sup> |
| <b>Clean lubrication oil</b> | 2.6 m <sup>3</sup>  |
| <b>Dirty lubrication oil</b> | 2.6 m <sup>3</sup>  |
| <b>Bilge water</b>           | 5 m <sup>3</sup>    |
| <b>Sewage</b>                | 7.5m <sup>3</sup>   |
| <b>Urea</b>                  | 3.6m <sup>3</sup>   |

### Accommodation

|                    |          |
|--------------------|----------|
| <b>1-man cabin</b> | 2 (two)  |
| <b>2-man cabin</b> | 4 (four) |
| <b>Messroom</b>    | 1 (one)  |
| <b>Galley</b>      | 1 (one)  |

### Nautical & communication

|                                   |  |
|-----------------------------------|--|
| <b>GMDSS area</b>                 | A3 equipped  |
| <b>Wheelhouse control station</b> | Kongsberg Maritime   |
| <b>Compass</b>                    | Cassens & Plath Reflecta 11 magnetic Satellite Compass Simrad GN70/HS80A |
| <b>Radar system</b>               | 2 x Furuno FAR 1518-BB   |
| <b>(D) GPS</b>                    | Simrad GN70/HS80A  |
| <b>Autopilot</b>                  | SIMRAD AP-70   |
| <b>Echo sounder</b>               | Furuno FE-800  |
| <b>Speedlog</b>                   | Furuno DS-80   |
| <b>VHF Radio Telephone</b>        | 2 x Cobham Sailor 6222 DSC<br>1x Cobham Sailor 6210                      |
| <b>VHF Handheld</b>               | Sailor SP3540 GMDSS ATEX   |
| <b>Navtex</b>                     | Furuno NX-700B   |
| <b>AIS</b>                        | Furuno FA-170  |
| <b>MF/HF SSB radiotelephone</b>   | Cobham Sailor 6310   |
| <b>Searchlight</b>                | 2 x Norselight SH470 2000W   |
| <b>EPIRB</b>                      | Jotron TRON 60S  |
| <b>SART</b>                       | Jotron TRON SART20   |
| <b>CCTV system</b>                | Orlaco - 4 camera's deck/gangway view                                    |
| <b>Communication</b>              | Starlink - SSB - Phones - Wi-Fi  |
| <b>ECDIS system</b>               | 2 x Transas Navi-Sailor 4000 system                                      |
| <b>Weather system</b>             | Meteogroup Offshore SPOS onboard Gill                                    |
| <b>Weather station</b>            | Instruments GMX500 anemometer 2x   |
| <b>Inmarsat C System</b>          | Furuno Felcom 18 LRIT  |
| <b>VSAT system</b>                | 2 x Data / TV, Intellian system  |
| <b>Maintenance system</b>         | MARAD system onboard & tech office                                       |

## Muller Dordrecht

T +31 (0) 78 639 2000 (24/7) | E sales@muller-dordrecht.nl | muller-dordrecht.nl

