

# EN AVANT 26

TECHNICAL INFORMATION



**90**

mt  
Bollard Pull  
Seagoing FiFi ASD Tug

**Muller.**

# EN AVANT 26

## HARBOUR | SEAGOING | TERMINAL | ESCORT & ASD

### General Information

|                                    |                                                                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Year built</b>                  | May 2024                                                                                                                                                                                                                                 |
| <b>Builder</b>                     | DAMEN Shipyards, Song Cam, Vietnam                                                                                                                                                                                                       |
| <b>Build type</b>                  | Damen ASD 3212, Seagoing Escorting Tugboat                                                                                                                                                                                               |
| <b>Class</b>                       | Bureau Veritas (BV Nr: 41414S)                                                                                                                                                                                                           |
| <b>Classification</b>              | I HULL MACH Escort Tug (Bollard pull =85 t)<br>(maximum steering force = 75 t, maximum<br>breaking force = 90 t, maximum escort speed<br>= 10 kn) Unrestricted Service, AUT UMS INWATER<br>SURVEY, Green Passport EU, Clean ship, FiFi-1 |
| <b>Port of registry &amp; Flag</b> | Dordrecht, The Netherlands                                                                                                                                                                                                               |
| <b>Callsign / MMSI</b>             | PGHE * / 244890000 *                                                                                                                                                                                                                     |
| <b>IMO</b>                         | 9949443 *                                                                                                                                                                                                                                |

### Main Particulars

|                                 |                 |
|---------------------------------|-----------------|
| <b>Length o.a.</b>              | 32.70 m         |
| <b>Beam o.a.</b>                | 12.82 m         |
| <b>Depth at sides</b>           | 5.35 m          |
| <b>Draught min/max</b>          | 5.80 / 6.20 m   |
| <b>Gross/Nett tonnage</b>       | 449 GT / 134 NT |
| <b>Displacement (98% cons.)</b> | 800 T           |

### Performance

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| <b>Bollard Pull max.</b> | 88 T ahead / 78 T astern                         |
| <b>Escorting</b>         | 75 T max steering force, 90 T max breaking force |
| <b>Speed</b>             | 13.6 knots                                       |

### Propulsion

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| <b>Main Engines</b>       | 2 x Caterpillar 3516C TA HD/D (IMO Tier 3)                                                   |
| <b>Total power</b>        | 6.772 hp (5.050 kW) at 1800 rpm                                                              |
| <b>Azimuth Thrusters</b>  | 2 x Kongsberg Maritime US 255S P30 FP                                                        |
| <b>Propeller diameter</b> | 2 x 3000 mm fixed pitch                                                                      |
| <b>Clutch</b>             | A slipping clutch is integrated in the thrusters for<br>manoeuvring very slowly.             |
| <b>Fuel oil system</b>    | Main and auxiliary engines running on fuel acc.<br>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>FW maker</b>              | 4m3/day basis Rev. Osmosis system                                                  |
| <b>General service pumps</b> | 2 x Azcue CA-50/3A, cap. 27m3/h                                                    |
| <b>Stripping pump</b>        | 1 x Azcue CA-32/05, cap. 10m3/h                                                    |
| <b>Fuel transfer pump</b>    | 1 x Azcue CA40-1B, cap. 12m3/h                                                     |
| <b>Shore power supply</b>    | One socket fitted on main deck aft side<br>400V - 3p - 50Hz - 80 A (female socket) |

### Deck Lay-out

|                                |                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------|
| <b>Free Deck Space</b>         | 65 m <sup>2</sup> - well suited for towing & material storage                       |
| <b>Deck Crane</b>              | 1 x Heila HLM 20-3S-D, SWL 1700kg @ 10,58 m                                         |
| <b>MOB/Workboat</b>            | 1 x Work Boat type Whally 400                                                       |
| <b>Towing aft-winch</b>        | DMC - TW-H-30-200 SID - hydraulic driven                                            |
| <b>Capacity aft-winch</b>      | 850m lenght - 52mm ø - RHOL 1960N/mm2                                               |
| <b>High pull / Low speed</b>   | 30T up to 11.4m/min on 2nd layer                                                    |
| <b>Slack rope speed</b>        | 8T up to 38.5 m/min on 2nd layer                                                    |
| <b>Brake holding force</b>     | 200T on 2nd layer                                                                   |
| <b>Measurement system</b>      | Line pull / line length sensors on aft winch                                        |
| <b>Spare tow wire winch</b>    | DMC winch (underdeck), wire 825m - 52mm ø                                           |
| <b>Towing hook aft</b>         | 1 x MAMPAEY hydraulic disc type - SWL 86T                                           |
| <b>Towing/escort winch bow</b> | DMC - RRW-H-30-200-DD (Hägglunds)<br>hydraulic driven escort winch with double drum |
| <b>Capacity bow-winch</b>      | 2 x 250m lenght - 60mm ø - dyneema/strongline                                       |
| <b>High pull / low speed</b>   | 30T up to 27m/min on 2nd layer                                                      |

|                        |                                             |
|------------------------|---------------------------------------------|
| <b>Maximum speed</b>   | 44 m/min on 2nd layer                       |
| <b>Towing pin</b>      | Tug Pins - 100T SWL Guide pins & ø78mm Fork |
| <b>Navigation mast</b> | Foldable by hydraulic system                |

### Fire fighting equipment

The tug is classed & outfitted for Fire Fighting 1 (FiFi-1) system 2400 m3/h.  
2 x FiFi pumps type FFS, 1200-1400m3/h cap. each, connected to each step-up  
gearbox and driven by each main engine, 2 x FFS elec. remote contr.monitors  
for water/foam with Fog/ Spray/ Jet fully compliant with FiFi-1. The monitors  
are fitted forward of the wheelhouse.  
Capacity each monitor: -9.5 bar working pressure  
-1200m3/hr water at 120m jet lenght  
-300 m3/h foam

### Tank capacities

|                              |                      |
|------------------------------|----------------------|
| <b>Fuel Oil (MGO)</b>        | 168.9 m <sup>3</sup> |
| <b>Fresh Water</b>           | 15.4 m <sup>3</sup>  |
| <b>Clean lubrication oil</b> | 5.79 m <sup>3</sup>  |
| <b>Dirty lubrication oil</b> | 7.80 m <sup>3</sup>  |
| <b>Foam</b>                  | 12.30 m <sup>3</sup> |
| <b>Bilge water</b>           | 6.50 m <sup>3</sup>  |
| <b>Sewage</b>                | 5.1 m <sup>3</sup>   |
| <b>Urea</b>                  | 3.00 m <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<br>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 (FiFi-1)                                         |
| <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>              | VSAT - Iridium - SSB - Phones - Wi-Fi                                       |
| <b>ECDIS system</b>               | 2 x Transas Navi-Sailor 4000 system                                         |
| <b>Weather system</b>             | Meteogroup Offshore SPOS onboard                                            |
| <b>Weather station</b>            | Gill Instruments GMX500 anemometer                                          |
| <b>Inmarsat C System</b>          | 2 x Furuno Felcom 18 LRIT                                                   |
| <b>VSAT system</b>                | 2 x Data / TV, Intellian system                                             |
| <b>Maintenance system</b>         | MARAD system onboard & tech office                                          |

### Contact Details

|                         |                                |
|-------------------------|--------------------------------|
| <b>E-mail, VSAT</b>     | ea26@muller-dordrecht.nl       |
| <b>E-mail Office</b>    | operations@muller-dordrecht.nl |
| <b>Telephone Bridge</b> | +31 (0) 612 345 678 *          |
| <b>VSAT Telephone</b>   | +31 (0) 108 080 346 *          |

\* details not guaranteed

## Muller Dordrecht

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

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