

DAMEN ASD TUG® 2811

SAFETY - RELIABILITY - EFFICIENCY



AZIMUTH STERN DRIVE TUG 2811

“PIONEER”

GENERAL

| | |
|-----------------|--|
| Yard number | 513204 |
| Delivery date | 2019 |
| Basic functions | Towing and mooring |
| Classification | Bureau Veritas |
| | I * HULL • MACH Escort Tug (Bollard pull = 65 t) (maximum steering force = 47 t, maximum braking force = 64 t, maximum escort speed = 10 kn) |
| | Unrestricted Service AUT UMS Inwater |
| | Survey COMF-NOISE 3, COMF-VIB 3 |
| Flag | The Netherlands |
| Owner | Damen Marine Services B.V. |

DIMENSIONS

| | |
|----------------|---------|
| Length overall | 28.57 m |
| Beam overall | 11.43 m |
| Depth at sides | 4.60 m |
| Draught aft | 4.65 m |
| Displacement | 550 t |
| Gross tonnage | 299 t |

TANK CAPACITIES

| | |
|-----------------|---------------------|
| Fuel oil | 67.8 m ³ |
| Fresh water | 14.0 m ³ |
| Lubrication oil | 2.3 m ³ |
| Dirty oil | 2.3 m ³ |
| Sewage | 7.4 m ³ |
| Bilge water | 4.9 m ³ |
| Urea | 3.0 m ³ |

PERFORMANCES

| | |
|---------------------|---------|
| Bollard pull ahead | 60.0 t |
| Bollard pull astern | 55.0 t |
| Speed ahead | 13.0 kn |
| Speed astern | 12.5 kn |

PROPULSION SYSTEM

| | |
|--------------------|---------------------------------|
| Main engines | 2x Caterpillar 3512C TA HD / D |
| Total power | 3806 bkW (5104 bhp) at 1800 rpm |
| Azimuth thrusters | 2x Rolls Royce US 205 |
| Propeller diameter | 2500 mm |
| Forced ventilation | 56.000 m ³ /h |
| Exhaust emission | IMO Tier III compliant |

AUXILIARY EQUIPMENT

| | |
|-----------------------|---|
| Generator sets | 2x Caterpillar C4.4 TA, 230/400 V, 107 kVA, 50 Hz |
| General service pumps | 2x Azcue CA-50/3A 20.0 m ³ /h |
| Bilge pump | Megator L125 V-DBP |
| Fuel transfer pump | Azcue BR-41-10 12.0 m ³ /h |
| Fuel oil purifiers | 2x CJC PTU3 27/81 MZ-E2PWZ |
| Cooling system | Box cooling + anti-growth system |
| Hydraulic system | Two main engine driven pumps |

DECK LAY-OUT

| | |
|---------------------|---|
| Anchors | 2x 360 kg Pool (High Holding Power) |
| Anchor/towing winch | Hydraulically driven two speed winch with split drum and warping head, pull 31.5 ton at 9.5 m/min, slack rope speed up to 41 m/min, 150 ton brake |
| Towing hook aft | 65 ton |
| Fendering | D-fender at sides, cylindrical fender at transom corners, cylindrical and W-block bow fender with water spray |

ACCOMMODATION

For max. 6 persons (MLC 2006 compliant), insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse, floating floors and air-conditioned. Captain's cabin, chief engineer's cabin, two double crew cabins, galley, mess/dayroom, dry store and sanitary facilities.

NAUTICAL AND COMMUNICATION EQUIPMENT

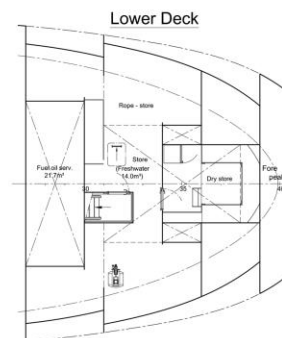
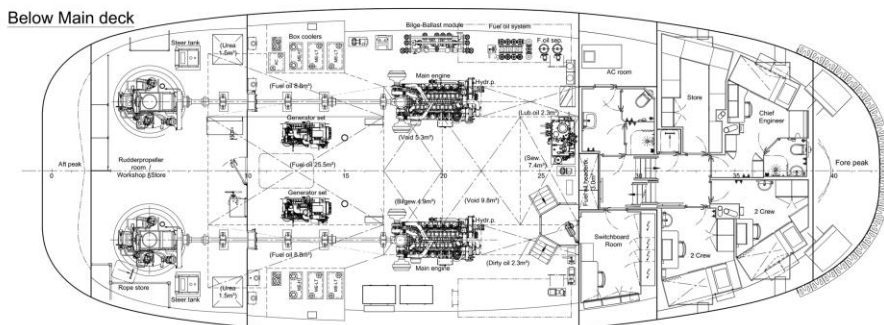
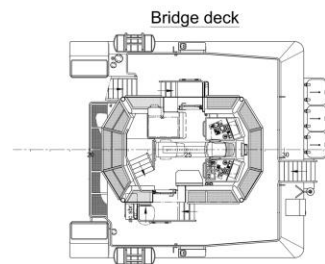
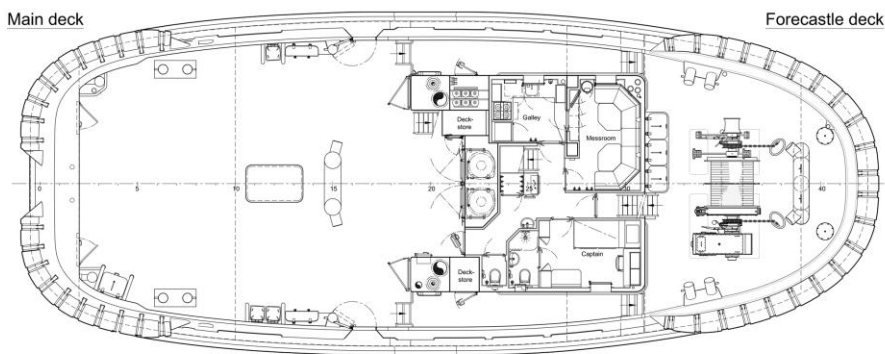
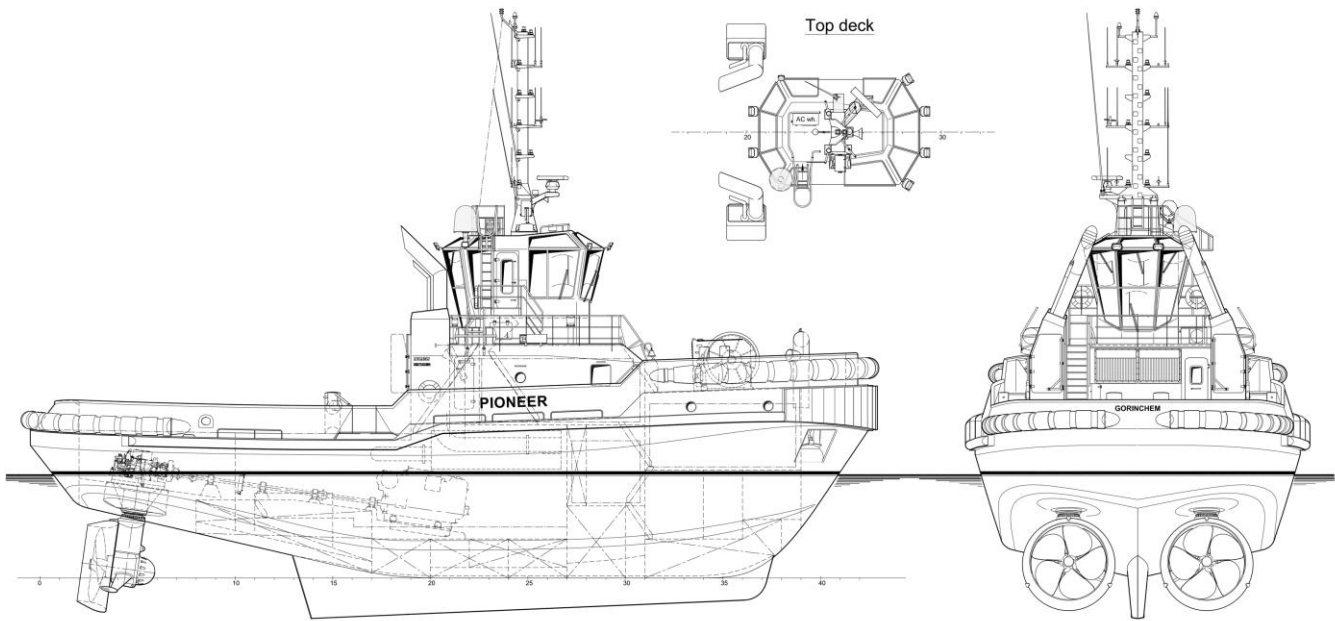
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|-------------------------|-------------------------------|
| Searchlight | Norselight 2000 W |
| Radar system | Furuno FAR 1518-BB |
| ECDIS | Furuno FMD-3200 |
| Compass | Cassens & Plath Reflecta 11 |
| Autopilot | Simrad AP-70 |
| Satellite compass / GPS | Simrad GN70/HS80A |
| Echosounder | Furuno FE-800 |
| VHF radio telephone | 2x Sailor 6222 (one with DSC) |
| VHF hand-held | 2x Jotron Tron TR-20 |
| UHF | Motorola DM4400 |
| Navtex | Furuno NX-700B |
| AIS | Furuno FA-170 |
| SSB | Furuno FS-1575 |
| EPIRB | Jotron Tron-60S |
| Sart | Jotron Tron Sart20 |
| VSAT system | Intellian V60G |
| Anemometer | Gill Instruments GMX500 |

DAMEN

DAMEN MARINE SERVICES B.V.

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DAMEN MARINE SERVICES B.V.

Avelingen-West 20
4202 MS Gorinchem
The Netherlands

P.O. Box 1
4200 AA Gorinchem
The Netherlands

phone +31 (0)183 65 46 60
fax +31 (0)183 63 94 40

info-dms@damen.com
www.damenmarineservices.com

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