EN AVANT 26

TECHNICAL INFORMATION



90 mt
Bollard Pull
Seagoing FiFi1 ASD Tug

Muller.

EN AVANT 26

HARBOUR | SEAGOING | TERMINAL | ESCORT & ASD

General Information

Year built	May 2024
Builder	DAMEN Shipyards, Song Cam, Vietnam
Build type	Damen ASD 3212, Seagoing Escorting Tugboat
Class	Bureau Veritas (BV Nr: 41414S)
Classification	I HULL MACH Escort Tug (Bollard pull =85 t) (maximum steering force = 75 t, maximum breaking force = 90 t, maximum escort speed = 10 kn) Unrestricted Service, AUT UMS INWATER SURVEY,Green Passport EU, Clean ship, FiFi-1
Port of registry & Flag	Dordrecht, The Netherlands
Callsign / MMSI	PGHE * / 244890000 *
IMO	9985277

Main Particulars

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

Performance

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

Propulsion

Main Engines	2 x Caterpillar 3516C TA HD/D (IMO Tier 3)
Total power	6.772 hp (5.050 kW) at 1800 rpm
Azimuth Thrusters	2 x Kongsberg Maritime US 255S P30 FP
Propeller diameter	2 x 3000 mm fixed pitch
Clutch	A slipping clutch is integrated in the thrusters for manoeuvring very slowly.
Fuel oil system	Main and auxiliary engines running on fuel acc. ISO 8217 : 2012 or ISO 8217 : 2017 – DMA.

Auxiliairy Equipment

Auxiliary Engine Sets	2 x Caterpillar C4.4 TA
Generator sets	2 x Leroy Somer LSAM 44.3 L10, cap. 107VA each
Electrical system	230 V 1-phase, 50/60Hz / 400 V 3-phase 50Hz
FW maker	4m3/day basis Rev. Osmosis system
General service pumps	2 x Azcue CA-50/3A, cap. 27m3/h
Stripping pump	1 x Azcue CA-32/05, cap. 10m3/h
Fuel transfer pump	1 x Azcue CA40-1B, cap. 12m3/h
Shore power supply	One socket fitted on main deck aft side 400V - 3p - 50Hz - 80 A (female socket)

Deck Lay-out

Free Deck Space	65 m² - well suited for towing & material storage
Deck Crane	1 x Heila HLM 20-3S-D, SWL 1700kg @ 10,58 m
MOB/Workboat	1 x Work Boat type Whally 400
Towing aft-winch	DMC - TW-H-30-200 SID - hydraulic driven
Capacity aft-winch	850m lenght - 52mm ø - RHOL 1960N/mm2
High pull / Low speed	30T up to 11.4m/min on 2nd layer
Slack rope speed	8T up to 38.5 m/min on 2nd layer
Brake holding force	200T on 2nd layer
Measurement system	Line pull / line length sensors on aft winch
Spare tow wire winch	DMC winch (underdeck), wire 825m - 52mm ø
Towing hook aft	1 x MAMPAEY hydraulic disc type - SWL 86T
Towing/escort winch bow	DMC - RRW-H-30-200-DD (Hägglunds) hydraulic driven escort winch with double drum 2 x 250m lenght - 60mm ø - dyneema/strongline
Capacity bow-winch	30T up to 27m/min on 2nd layer
High pull / low speed	
Maximum speed	44 m/min on 2nd layer
Towing pin	Tug Pins - 100T SWL Guide pins & ø78mm Fork
Navigation mast	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

Fuel Oil (MGO)	168.9 m³
Fresh Water	15.4 m³
Clean lubrication oil	5.79 m³
Dirty lubrication oil	7.80 m³
Foam	12.30 m³
Bilge water	6.50 m³
Sewage	5.1 m³
Urea	3.00 m³

Accomodation

1-man cabin	2 (two)
2-man cabin	4 (four)
Messroom	1 (one)
Galley	1 (one)

Nautical & communication

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

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