

EN AVANT 20

TECHNICAL INFORMATION



70

mt
Bollard Pull
Harbour and Seagoing tug

Muller.

EN AVANT 20

HARBOUR AND SEAGOING TUG

General Information

Year of construction	December 2006
Builder	Lindenau GmbH Schiffswerft, Kiel, Germany
Build type	ASD Seagoing&Harbour tug
Class	Germanischer Lloyd
Classification	HULL ✱ 100 A5 M E1 with freeboard 1.009m Tug MACH ✱ MC E1 AUT
Class register nr	GL-112608
Flag	Netherlands
Call sign	PCUZ
IMO	9408645
Port of registry	Dordrecht

Main Particulars

Length o.a.	32.50 m
Breadth o.a.	11.64 m
Maximum draught	5.00 m
Air draught	23.76 m
Gross/Nett tonnage	448 T (Suez 540 T) / 134 T (Suez 340 T)
Deadweight tonnage	254.74 T
Displacement	834.22 T

Performances

Bollard Pull max.	69.2 T
Bollard Pull cont.	66.7 T
Speed	12.7 knots

Propulsion system

Main Engines	2 x ABC Type ABC 8 MDZC
Total power	5,100 hp (3,744 kW) at 1000 rpm
Transmission	Clutch type Kendrion Airflex 24VC1000
Azimuth Thrusters	2 x Schottel SRP1515 FP
Propellers	2 x 2600 mm fixed pitch
Nozzles	Schottel RP, pressurised

Auxiliary Equipment

Generator Engine sets	2 x Cummins genset
Generator sets	2 x Caterpillar SR4
Capacity	150 kVA each 50Hz, 230/400 V
General transfer pumps	2 x Iron Man DHBB 50-50/200 25m³/hr
Fuel separator	GEA Westfalia OTC2-02
Luboil separator	GEA Westfalia OTC2-02
Watermaker (FW)	5m³/day freshwater generation capacity

Deck Lay-out

Anchor	2 x 570 kg Stockless anchor
Chain	22mm - 137.5 m short link
Deck crane	Palfinger PK32080M BS1.2 remote controlled 1.6 ton at 13.80 m
Escort fore-winch	Brusselle, double drum, hydraulic, 44.9T pull, 2 x 100m, 52mm dyneema winchline
Towing aft-winch	1 x split drum, Brusselle type SLH 180.45/1S-1
Power/speed	hydraulic powered Nom. pull: 350kN @ 0-6m/min over 68kN @ 0-26.4m/min upto about 48kN at 0-30m/min Stall pull: 400kN, brake holding force 1800kN (wet) 2x remote controlled band-brakes, friction clutch
Towing wire	A) 850m - ø52mm - MBL 1893 kN - 193 T B) 650m - ø52mm - MBL 1893 kN - 193 T Steel wire: galvanised 6x36WS IWRC RHOL 1960N/mm
Capstan	11T pull, 25T braking. Brusselle, type HK10 hydraulic, vertical head

Tank capacities

Fuel Oil (MGO)	232.00 m³
Fresh Water	24.00 m³
Lub Oil	10.50 m³
Dirty oil	9.50 m³
Sewage	7.00 m³
Water Ballast	61.00 m³

Accommodation

Heated and air-conditioned living spaces for 10 persons, consisting of a galley and mess room, captain's cabin, C.E. cabin and a 1st officer cabin, officers sanitary facilities on the main deck, four double crew cabins, and crew's sanitary facilities below deck.

Nautical & communication equipment

GMDSS area	A3 (A1 A2 A3 equipped)
Searchlights	2 x Seematz 1000W
Compass	1 x Kotter type / 1 x gyro compass
Radar system A	Raytheon NSC 25 TFT
Radar system B	Raytheon NSC 25 TFT
Radar river system	Elina-4007/9TFT
GPS	Raytheon NSC 18
Autopilot	Raytheon Pilot Star D AP02-S01
Echo sounder	Raytheon GDS101
Speedlog	Skipper EMC24
VHF Radio Telephone	2 x Sailor RT 5022 + DSC, 25 Watt
VHF Handheld	2 x Jotron TR20 GMDSS
Navtex	JRC NCR 333
AIS	SAAB R4 AIS GPS
SART	McMurdo S4
Communication	VSAT - Iridium - SSB - Phones
ECDIS system	2 x Transas Navi-Sailor 4000 system
Weather system	Meteogroup SPOS onboard
Weather station	Lambrecht realtime monitoring
Navigation lights	Norselight NLC8/40
Bridge nav. watch system	Janssen WGA-33
Inmarsat C system	Furuno Felcom 18
VSAT system	Intellian by Radio-Holland
Maintenance system	MARAD 4.43 system onboard & office

Contact Details

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