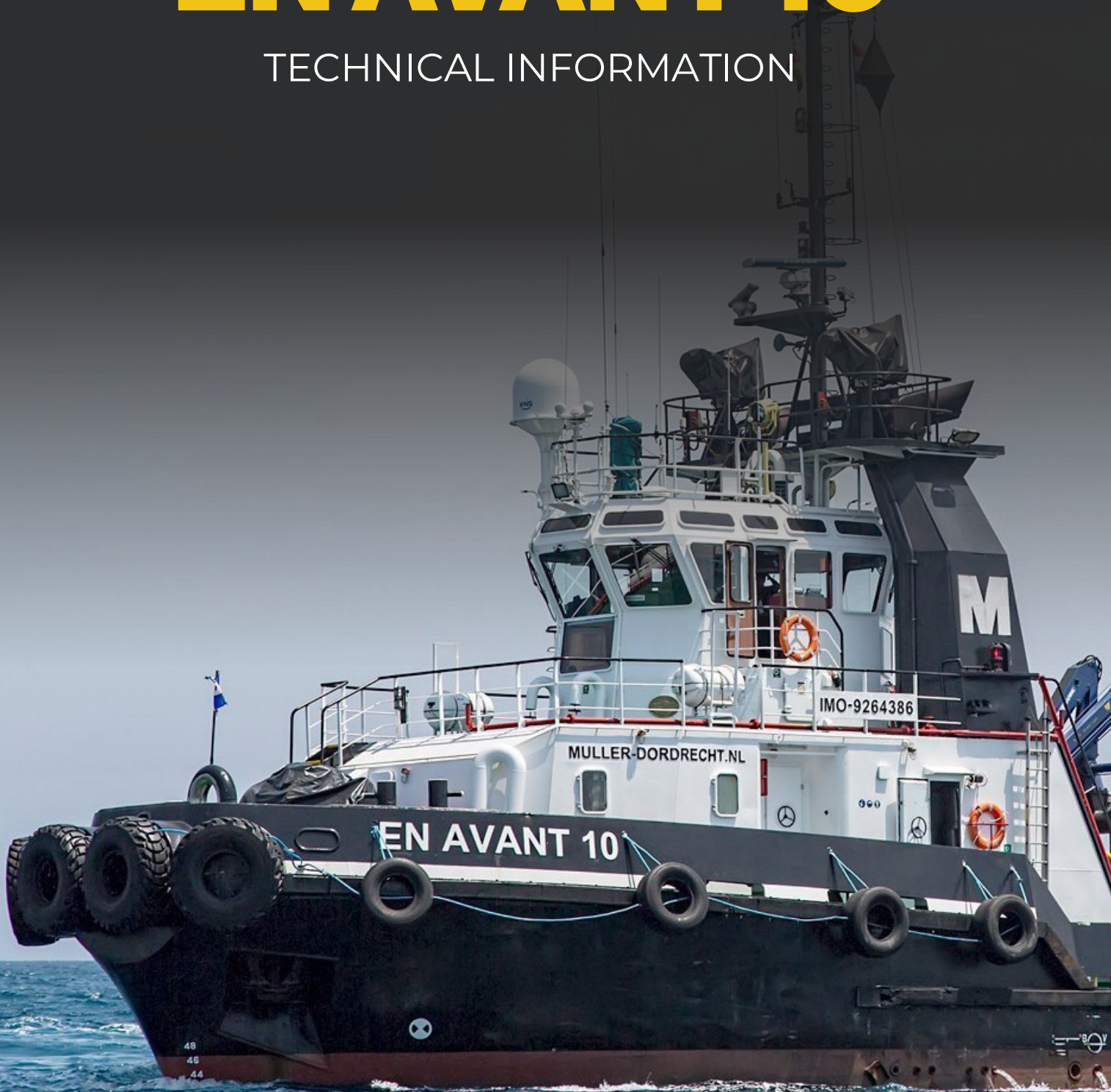


EN AVANT 10

TECHNICAL INFORMATION



60 mt
Bollard Pull
Harbour and seagoing tug

Muller.

EN AVANT 10

HARBOUR | SEAGOING | SALVAGE & RESPONSE

General Information

Year built	2002
Builder	Astilleros Armon S.A., Vigo, Spain
Build type	ASD Seagoing & Harbour tug + FiFi ship
Class	Bureau Veritas
Classification	HULL I MACH Escort Tug Fire fighting ship 1 - Water Spraying Unrestricted navigation AUT-UMS
Class Register nr	02252A
Flag	Netherlands
Callsign	PCPP
IMO	9264386
Port of registry	Dordrecht

Main Particulars

Lenght o.a.	30.00 m
Breadth o.a.	10.00 m
Maximum draught	4.80 m
Air draught	22.39 m
Gross tonnage	358 T
Nett tonnage	107 T

Performance

Bollard Pull max.	60.2 T
Speed	13.5 knots

Propulsion

Main Engines	2 x CAT Type 3516B TA-HD
Total power	4,000 hp (2,983 kW) at 1800 rpm
Gearboxes	2 x Reintjes LAF 741 / 2.033:1
Azimuth Thrusters	2 x Schottel SRP1212 FP
Propellers	2 x 2300 mm fixed pitch
Nozzles	Schottel RP, pressurised
Bowthruster	1 x Schottel ST110LK 275HP

Auxiliary Equipment

Generator Engine sets	2 x Caterpillar 3304B T
Generator sets	2 x Caterpillar SR4, 106 kVA each, 50Hz, 230/400 V
Bowthruster aux. engine	1 x Caterpillar 3406
General transfer pumps	2 x ABB pump Azcne 70m ³ /hr
Cool water pumps	2 x ABB MN 50-125
Fuel separator	Alfa Laval MAB 104-B24 1.6 T/m ³
Luboil separator	Alfa Laval MAB 104-B24 1.6 T/m ³

Deck Lay-out

Anchor	2 x 570 kg Stockless anchor
Chain	22mm - 137.5 m short link
Deck crane	Palfinger PK12080M BS1.2 remote controlled, 0.93T @ 12.94 m, 10.7T/m
Escort winch	Bi Kateak, hydraulic, 3.5T - 54m/min, Dyneema rope, ø 80mm, 100m, MBL 150T
Towing winches	Waterfall type
Main winch	Bi Kateak, hydraulic, 18T - 20m/min
- Brake holding force	120T
- Towing wire	800m - ø 44mm - MBL 1450 kN / ABL 153 ton Steel wire galvanised 6x36WS IWRC RHOL 1960N/mm

Second winch

- Brake holding force	120T
- Towing wire	650m - ø 44mm - MBL 1450 kN / ABL 153 ton Steel wire galvanised 6x36WS IWRC RHOL 1960N/mm

Capstan roller head

Stern roller	Bi Kateak, hydraulic, 5T Stern roller: 2000mm, diam. 711mm, SWL 30 tons
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Fire Fighting Equipment

FiFi level	FiFi 1 - Water Spraying
FiFi monitors	2 x Kvaerner 1200m ³ /hr each
FiFi system	Kvaerner FiFi-pump B 1470-002
FiFi pump capacity	3600 m ³ /hr
Spraying system	Water, Foam (12 m ³)
Deluge protection	Waterspraying system fitted
Internal FiFi	CO ₂ in the engine room
Anti pollution	Fitted with 2 booms with dispersant disposers

Tank capacities

Fuel Oil (MGO)	273.00 m ³
Fresh Water	54.24 m ³
Foam	12.00 m ³
Lub Oil	5.10 m ³
Dirty Oil	5.15 m ³
Engine Oil	5.15 m ³
Gear Oil	7.51 m ³
Hydraulic Oil	7.51 m ³
Water Ballast	7.69 m ³

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

GMDSS area	A1 A2 A3 equipped
Searchlights	2 x Seematz 1000W
Compass	1 x Kotter type / 1 x gyro compass
Radar system	Furuno FR 1505 mk III + JRC 2253
GPS	JRC
Autopilot	Robinson APS mk III
Echo sounder	Suzuki ES 1025
VHF Radio Telephone	2 x Sailor RT 5022 + DSC, 25 Watt
VHF Handheld	2 x Axis-50

Navtex

AIS	JRC NCR 330
SART	SAAB R4
Communication	McMurdo S4
ECDIS system	VSAT - Iridium - SSB - Phone
Weather system	2 x Transas Meteogroup SPOS onboard

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