

# EN AVANT 30

TECHNICAL INFORMATION



# 119

mt  
Bollard Pull  
Offshore & Anchorhandling tug

**Muller.**

# EN AVANT 30

## AHT DEEPSEA | FiFi2 | SALVAGE & ESCORT

### General Information

|                       |                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Year built</b>     | November 2011                                                                                                                                    |
| <b>Builder</b>        | Astilleros Armon Vigo, S.A. Pontevedra, Spain                                                                                                    |
| <b>Build type</b>     | ASD, FiFi 2, Escort, Deepsea, AHT & Salvage tug                                                                                                  |
| <b>Class</b>          | Bureau Veritas                                                                                                                                   |
| <b>Classification</b> | Unrestricted Navigation.   HULL   MACH Tug. Escort Tug, Fire fighting ship 2, Oil recovery ship   AUT-UMS   AUT-PORT   SYS-NEQ-1   INWATERSURVEY |

|                                    |                            |
|------------------------------------|----------------------------|
| <b>Port of registry &amp; Flag</b> | Dordrecht, The Netherlands |
| <b>IMO</b>                         | 9597317                    |
| <b>Callsign</b>                    | P B P T                    |

### Main Particulars

|                                |                                   |
|--------------------------------|-----------------------------------|
| <b>Length o.a.</b>             | 40.70 m                           |
| <b>Breadth mid/o.a.</b>        | 14.40 / 15.50 m (incl. D-fenders) |
| <b>Depth</b>                   | 6.90 m                            |
| <b>Draught min/max</b>         | 6.50 / 7.30 m                     |
| <b>Gross/Nett tonnage</b>      | 927 GT/ 278 NT                    |
| <b>Displacement empty/full</b> | 1476 / 2015 T                     |
| <b>Lightship weight</b>        | 1274 T                            |

### Performance

|                                  |             |
|----------------------------------|-------------|
| <b>Bollard Pull cont. / max.</b> | 117 / 119 T |
| <b>Speed</b>                     | 14.3 knots  |

### Propulsion system

|                          |                                 |
|--------------------------|---------------------------------|
| <b>Main Engines</b>      | 2 x MAN 9L 27/38                |
| <b>Total power</b>       | 9.000 hp (6.750 kW) at 800 rpm  |
| <b>Azimuth Thrusters</b> | 2 x SCHOTTEL, type SRP 3030 CPP |
| <b>Propellers</b>        | 2 x 3400mm controllable pitch   |
| <b>Bow Thruster</b>      | 1 x SCHOTTEL 450 kW             |

### Auxiliary Equipment

|                            |                                            |
|----------------------------|--------------------------------------------|
| <b>Auxiliary Engine</b>    | 2 x MAN D2876 LE301, each 345kW @ 1500 rpm |
| <b>Emergency/harb. set</b> | 1 x MAN D2866 LXE20, 177kW @ 1500 rpm      |
| <b>Shaft Generators</b>    | Siemens Electronic 250kW 400V 50Hz         |
| <b>FW maker</b>            | 4m3/day basis Rev. Osmosis system          |

### Deck Lay-out

|                         |                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Free Deck Space</b>  | 185m2 - well suited for Anchors and Materials.                                                                                                       |
| <b>Deck Crane</b>       | 1 x PALFINGER PK18500MD, SWL 940kg @ 13,10 m                                                                                                         |
| <b>Towing aft-winch</b> | IBERCISA Hydraulic driven waterfall w. split drum<br>Drum 1 1 x 1000 m IWRC ø64 mm<br>Drum 2a 1 x 400 m IWRC ø64 mm<br>Drum 2b 1 x 400 m IWRC ø64 mm |

|                             |                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------|
| <b>Capacity aft-winch</b>   | Pull 110 T / Break Holding 250 T                                                              |
| <b>Duty on towing</b>       | 95 T line pull at 0-14m/min, 220 T brake load.                                                |
| <b>Spare tow wire winch</b> | IBERCISA Hydraulic driven winch, BT Pull, placed underdeck, fitted wire 1 x 1000m IWRC ø64 mm |

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Towing hook aft</b>        | 1 x FERRI disc type 1514, SWL 130 T |
| <b>Towing/Escort hook bow</b> | 1 x FERRI disc type 1514, SWL 130 T |

|                                |                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Towing/Escort winch bow</b> | 2 x ROLLS ROYCE hydraulic driven Anchor/Escort winch type TW4200/1000, each with 1 drum fitted with 300m ø78 mm Dyneema rope |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|

|                       |                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duty on towing</b> | 110 T dynamic Pull, 420 T brake holding load                                                                                                                                                                                                                                            |
| <b>AHT equipment</b>  | 1 x Karmoy Karm Fork<br>2 x Karmoy Towing Pins, rotational with locking plate<br>2 x Karmoy guiding pins with hardened rollers in aft bulw., SWL 50T<br>2 x IBERCISA Hydraulic driven tuggerwinch 220/40<br>10T Pull, 15 T Hold each<br>Stern Roller 250 T SWL, dims. 4000mm x ø1800 mm |

|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| <b>Anchorsystem</b> | 2 x ROLLS ROYCE Hydraulic driven anchor winches<br>Anchors 1140 kg each 8 + 8 chain lengths |
|---------------------|---------------------------------------------------------------------------------------------|

### Salvage & anti-pollution equipment

#### Salvage equipment

2 x Elec. subm. pumps, 200m3/h cap. each, fitted with hoses and connections, cutting & welding equipment, ropes, wires, shackles, stretchers, pennant wires, towing chains, diving equipment. 2 x wheelhouse remote contr. searchlights, fitted with 2000W Xenon lights.

#### Anti-pollution equipment

2 x Rec-oil tanks total capacity 120m3  
1 x Rec-oil pump 20m3/hr  
2 x Dispersant booms 6,00m, 2 spray booms with nozzles  
1 x Dispersant Pump

#### Fire fighting equipment

2 x main pumps KVAERNER 3600m3/h cap. each, 2 x elec. remote contr. monitors for water/foam with Fog/ Spray/ Jet fully compliant with FiFi2

### Tank capacities

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Fuel Oil (MGO) incl. Rec-oil</b> | 549.42 m <sup>3</sup> |
| <b>Rec-oil (MGO)</b>                | 119.66 m <sup>3</sup> |
| <b>Fresh water</b>                  | 43.32 m <sup>3</sup>  |
| <b>Lub/Hydr. Oil</b>                | 63.10 m <sup>3</sup>  |
| <b>Sludge</b>                       | 7.00 m <sup>3</sup>   |
| <b>Dirty Oil</b>                    | 7.00 m <sup>3</sup>   |
| <b>Sewage tank</b>                  | 8.35 m <sup>3</sup>   |
| <b>Bilge water</b>                  | 14.49 m <sup>3</sup>  |
| <b>Water Ballast</b>                | 103.04 m <sup>3</sup> |

### Mob

1 x SOLAS Rescue Boat; 1 x Service/Work Boat

### Accommodation

Living quarters fully heated & air-conditioned, suitable for a crew of 14  
4 single cabins with WC and Shower  
5 double cabins with WC and Shower  
Crew lounge, deck office, mess-room, galley, walk-in store, one cold store (4°C) and one freezer store room (-20°C)

### Nautical & communication

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| <b>GMDSS area</b>          | A3 equipped                                                 |
| <b>Compass</b>             | Gyro Compass SIMRAD GC-80<br>Satellite Compass Furuno SC-50 |
| <b>Radar system</b>        | Furuno FAR 2117 X25 Kw<br>Furuno FAR 2137 S30 Kw            |
| <b>GPS</b>                 | 2 x Furuno GP-150                                           |
| <b>Autopilot</b>           | SIMRAD AP-50                                                |
| <b>Echo sounder</b>        | Furuno FE700                                                |
| <b>Speedlog</b>            | Furuno DS-80                                                |
| <b>VHF Radio Telephone</b> | 2 x Furuno FM880                                            |
| <b>VHF Handheld</b>        | 3 x GMDSS McMurdo R2                                        |
| <b>Navtex</b>              | Furuno NX-700                                               |
| <b>AIS</b>                 | Furuno FA-150                                               |
| <b>Communication</b>       | VSAT - Iridium - SSB - Phones                               |
| <b>ECDIS system</b>        | 2 x Transas Navi-Sailor 4000 system                         |
| <b>Weather system</b>      | Meteogroup Offshore SPOS onboard                            |
| <b>Weather station</b>     | Wind system WS200 Furuno RD-33                              |
| <b>Inmarsat C System</b>   | 2 x Inmarsat C FC 15, 1 x Sys. FC250                        |
| <b>VSAT system</b>         | Data / TV, intellian by Radio-Holland                       |
| <b>Maintenance system</b>  | MARAD 4.43 system onboard & office                          |

### Contact Details

|                         |                                |
|-------------------------|--------------------------------|
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