



AZIMUTH STERN DRIVE 32/70 TERMINAL SUPPORT/ESCORT TUG



BRIEF DESCRIPTION

TIRRENO Type ASD Robert Allan Ramparts 32 is designed to assist oil and gas off-loading tankers. Highly manoeuvrable, with two azimuth thrusters, this tugboat has its drum towing winch located on the forecastle, thus allowing to switch from towing to pushing within seconds. A towing winch is fitted on the main deck aft, giving an even higher operational flexibility. In addition it offers a 135 sqm deck space for material and 20 ft containers, even refrigerated, as well as a fire-fighting 1 (2x 1200 cbm/hr) capability. It also has oil dispersant spray booms and oil recovery capacity to 190 cbmeters. Oil Booms and oil recovery equipment are ready to be installed in case of antipollution. Each drum is equipped with a complete tow line giving redundancy. Although this vessel is intended as dedicated terminal support/escort tug for the offshore oil and LNG off-loading tankers, this tug can be deployed for these services too:

- Tanker escort service
- Fire –fighting activities

Fratelli Neri S.p.A.

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- Anchor handling/supply activities
- Antipollution services
- Transportation of spares/cargo to and from the offshore terminal

MAIN CHARACTERISTICS

Length overall:	32,00 m.
Beam overall:	12,20 m.
Depth main deck midship:	5,30 m.
Loaded draft:	5,50 m.
Deck area:	135 sqm.

REGISTRATION

Type:	Double Azimuth Stern Drive Offshore Terminal Escort Tug
Owner:	Fratelli Neri S.p.A.
Year built:	August 2006
Designer:	Robert Allan Ltd. - Canada
Builder:	Sanmar Denizcilik Ltd. - Turkey
Flag:	Italian
Call Sign:	IFPS2
Classification:	R.I.NA. C * HULL * MACH, TUG, UNRESTRICTED NAVIGATION AUT-UMS, OIL RECOVERY SHIP, FIRE-FIGHTING SHIP-1, WATER SPRAYING, ESCORT TUG

PERFORMANCE

Maximum speed:	14 knots
Economic speed:	11 knots
Bollard pull:	70 m. t.
Steering bollard pull:	94 m. t. at 10 knots

PROPULSION – MACHINERY

Main diesel engines:	2 x WARTSILA 6L26, 2025 kW at 1000 rpm each; total 5.500 Hp
Azimuth propellers:	2 x Rolls-Royce US255CP (2.600 mm diameter)
Auxiliaries generators:	2 MAN-LINDEBERG 175 kW
Emergency/harbor generator:	1 MAN-LINDEBERG 40 kW, radiator cooled

ACCOMODATION

Officers:	2 cabins with one berth + 2 cabins with two berths
Crew:	1 cabin with four berths

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Passengers: 1 cabin with two berths (the regular crew being 5, five additional bunks remain available for charterer's personnel, except during tug's crew changes)

Every cabin has its toilet with sanitary and shower.

Galley, messroom, freezing store, dry store, sanitary spaces, laundry, stores and fully equipped office. All accommodations are fully air-conditioned.

TOWING AND SPECIAL EQUIPMENT

Fore Towing Winch	45 tons towing, 130 tons brake power, with 150 meters UHMWPE rope, dynamic self tensioning at tons for escort operations
Aft Towing Winch	Double drum, 45 tons pulling, 130 tons brake power, with 700 meters and 250 meters 52mm diameter towing wires
Fendering	Heavily fendered with 800x400 and 500x250 cylindrical fenders on bow and keyhole fenders side
Stern Roller	1 meter diameter, 3 meters length, 131 tons SWL
Towpins	Flush towpins, remote operated
H-Bitt	Double horse shoe type towing staples
Aft Deck	5tons/Sqm capacity with space for 3x20ft ISO Containers

1 Towing hooks of 70 t. SWL; one on the foredeck and one on the aft; local and remote controlled

1 Hydraulic capstan of 5 t. pull

2 Dispersant booms of 6,50 m. length and 900 lt./h. capacity

1 Oil skimmer of 50 cm/h capacity

1 Oil booms reel

150 m. of oil booms

Several other minor equipments to fulfill the Oil Recovery Ship and the Salvage Class notations

TANK CAPACITIES

Fuel Oil	120.000 litres
Fresh Water	105.000 litres
Foam	18.100 litres
Dispersants	18.100 litres
Waste Oil	1.100 litres
Rec Oil	190.000 litres
Sewage	1.400 litres
Oily Water	1.400 litres

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ELECTRONICS

Communication	GMDSS A3 Sailor and Mini-M, Intercom and SP phone
Navigation equipment	2 radars, 2 GPS, Chart Plotter, Gyro Compass, Magnetic Compass, Auto Pilot, Echo Sounder, AIS, Speed Log
Automation	Unattended Engine Room as per ABS ABCU rules, Engine Control Room sound and dust proof, LCD panels in all Engineers rooms and mess

LIFE SAVING EQUIPMENT

Solas Boat & Crane	2xLiferaft for 16 persons, 12 life jackets, 8 life buoys, 2 MOB's, line throwers, immersion suits, thermal suits, escape sets all approved SOLAS Approved Solas boat and crane, crane suitable for deck cargo
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FIRE FIGHTING SYSTEM Class FI FI 1

Nr 2 x monitors of 1200 cbm/hr capacity each
Nr 2 x firefighting pumps of 1350 cbm/hr capacity and 14 bar pressure each
Fi-Fi 1 capacity with Deluge Spray System, Water & Foam

OIL RECOVERY EQUIPMENT

400 mts oil booms- MANNESMAN pne/ 200 mt oil booms- VIKOMA/ 1 skimmer OCS float discoil 50 /220 m3 oil recovery nr. 1 skimmer VIKOMA 30 /nr. 1 barca/tender per traino panne Hippy 20- Cantiere Tripesce Vada- 120 HP

OTHER

Bilge separator Helisep 0.5cm/h, fuel separator AlfaLaval 110lt/h, waste water treatment 1000lt/day, 2xSperreHL2/77 compressors

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