



## Arie A - Tractor and escort tugs


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Year	2016
Flag	Italian
Power	6850 HP
Gross Tonnage	462T
Class Society	R.I.NA.
Assigned Class	C+ Tug; Fi-Fi- Ship -1; Water-Spraying; Escort; Rec-Oil; Unrestricted Navigation
Add. Class notation	+AUT-UMS - Inwater Spray
Radio Station Area	A1+A2
Bollard pull	exp. 72T

## LNG Philosophy

Ship equipped with special apparatus in order to be capable to operate at LNG terminals and Oil Terminals:

- Accommodation and wheelhouse HVAC intakes shall be fitted with suitable gas detection alarms with sensors at all intake positions
- Machinery space intakes shall be fitted with gas detection alarms with sensors at all intake positions
- Gas detection alarms are to be set at both 20% & 40% of lower explosive limit of natural gas (Methane), or similar following advise form alarm manufacture
- All external lighting to be explosion-proof
- When gas alarm is activated, the non explosion proof equipment such as radars, deck machinery, vipers and searchlights etc. will switch off manually by single button
- Oxygen detector will be located inside the wheelhouse

NOTE : Escort pull assessed during basin trials is 100 tons.

## Main Particulars

Lenght Overall	30,25 mt
Beam	13,00 mt
Maximum Draft	6,3 mt
Max speed	12,5 Kn
Gross Tonnage	462 T
Net Tonnage	138 T
Bollard pull	72 T

## Machinery

Main Engines	2 x Caterpillar 3516HD
Power	2 x 2525 Kw at 1800 rpm
Propulsion	2 x Voith Schneider 32R V5
Aux Generators	2 x Caterpillar C4.4 - 2 x 86 kW 400V 50 Hz
Harbor gen.	1 x Caterpillar C4.4 - 2 x 86 kW 400V 50 Hz

## Tanks Capacity

Ballast	92 m3
Fuel Oil	163 m3
Fresh Water	20 m3
Lube Oil	8,1 m3
Hydraulic Oil	3,8 m3
Rec-oil (FT/BT)	107 m3
Rec-oil	6,5 m3
Foam	12 m3
Sewage	6,8 m3
Sludge	6,4 m3
Grey water	6,8 m3
Oily water	6,4 m3
Used oil	1,3 m3

## Accommodation

Single cabin	4
Double cabin	1
Total accommodation	5
Total crew	6
Note:	All accommodations are fully air conditioned, with WC and shower

## Rec-Oil

Equipment:	N° 2 Tanks 30 cum/each N° 1 Tanks 47 cum Tot. capacity 107 cum N° 1 REC-OIL Pump : 15 cum/hrs N° 1 Dispersant Pump
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## Towing Equipment

Equipment:	N° 1 DMT Hydraulic Split type double drum N°1 Drum 700 mts. IWRC Dia.54 mm. N°1 Drum 150 mts. Synthetic Rope Dia. 94mm. Brake Holding 2000 KN Escort force 105 Ton @17 m/min Towing Pins TRIPLEX N°1 Towing Hook Forward DATA N°1 Towing Hook After DATA
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## Navigation &amp; Communication

Equipment:	GMDSS Area A1+A2 N°1 Radar FURUNO Far-2117 N°1 Predisposition for a second radar N°1 Automatic Pilot Alphanon N°1 Ultrasonic Weather Station Ws200 N°1 Satellite Compass FURUNO Sc-60 N°1 GPS FURUNO Gp-150 N°1 AIS FURUNO FA-150 N°1 Echo sounder FURUNO Fe-700 N°1 Speed Doppler FURUNO Ds-80 N°1 Magnetic Compass Cassens&Plath N°2 Hand Held Vhf GMDSS JOTRON N°1 EPIRB JOTRON 40s Mkii N°1 Radar Transponders JOTRON N°1 NAVTEX FURUNO Nx-700 N°1 M/HF Radio Telephone FURUNO Fs-1570 N°2 VHF FURUNO FM-8900 N°1 Inmarsat Standard 'C' FELCOM16 LRIT N°1 CCTV System for ER and sides
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## Fire Fighting

Equipment:	N° 2 Main Pump FFS Total Capacity : 2.700 cum/hrs N° 2 Remote Controlled Monitors Water/Foam With Fog / Spray / Jet Set Self Protection : 300 cum/hrs
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## Windlass and Anchors

Equipment:	N° 2 Independent Electric Driven Windlass N° 2 Anchors N° 11 Chain Lengths Dia.22 mm.
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## Mob

Equipment:	N° 1 Solas approved Crane N° 1 Rescue Boat with outboard motor
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## Lifting Gear

Equipment:	N° 1 Hydraulically Driven Deck Crane HEILA HLM 10/3S SWL 2000 Kg
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## Sewage Treatment

Equipment:	N° 1 FACET STP - 0,5
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## Fendering

Equipment:	Aft Upper cylindrical dia 900mm Aft Low W type 480x300 mm Side fender D type 300x300 mm Bow fender W type 480x300 mm
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