



## VEHINTIUNO



### Main Details & Equipment list

#### *MAIN DETAILS*

<i>Loa.....</i>	<i>31,50 m.</i>
<i>Lbp.....</i>	<i>27,30 m.</i>
<i>Design Br .....</i>	<i>11,20 m.</i>
<i>Height .....</i>	<i>5,40 m.</i>
<i>Design drft .....</i>	<i>4,20 m.</i>
<i>Bollard Pull.....</i>	<i>75,20 Tns.</i>
<i>GO capacity.....</i>	<i>287 m<sup>3</sup></i>
<i>FW capacity .....</i>	<i>63 m<sup>3</sup></i>
<i>Lubs capacity .....</i>	<i>18 m<sup>3</sup></i>
<i>Foam Tank capacity .....</i>	<i>12 m<sup>3</sup></i>
<i>Sludge Tank capacity .....</i>	<i>5 m<sup>3</sup></i>
<i>Overflow Tank capacity.....</i>	<i>5 m<sup>3</sup></i>
<i>Minimum manning at sea .....</i>	<i>6</i>
<i>Minimum manning in Port.....</i>	<i>3</i>

#### *Class :*

***BUREAU VERITAS I 3/3 DEEP SEA TUG + AUT MS  
+ FIRE FIGHTING/WATER SPRAY : 1+ REC-OIL***

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### Atlas Shipbrokers

Knut Siemsgt.7 – N-6509 Kristiansund N – Norway  
Tlf. (+47) 716 70550 - Fax. (+47) 716 70551  
Internet : [www.atlas-shipping.no](http://www.atlas-shipping.no) E-mail : [post@atlas-shipping.no](mailto:post@atlas-shipping.no)



*The tugs have been specially designed to perform deep sea towage, escort services and harbour/Terminal operations, with maximum effectiveness and simple handling.*

*All window frames, doors, hatches and covers and air boxes, are constructed in stainless steel.*

*The Tugs are fitted with a stern rollers and hydraulic, bridge controlled, towing pins.*

*84 m of Rubber fenders, NOR RUBBER Tipo " D " de 250 x 250 mm. are fitted around the tugs, supported entirely by stainless steel fittings*

## DECK MACHINERY

### *Aft Towing Winch*

*Make IBERCISA – 150 tons b/l, including a declutchable drum and and brake, with a 800 m steel wire of 55 mm diameter and an automatic / manual cable stowing device al in stainless steel. Pull of 37 tons at 15 m/minute, 18,5 tons at 30 m/minute*

### *Fore towing winch/ Windlass*

*Make IBERCISA- hydraulic 150 Tons b/l, including a declutchable drum, divided in two, each containing 120 rope of 104 mm diameter, pull 35 tons at 16 m/minute and 17,5 tons at 32 m/minute,*

*2 x steel warping heads fitted clutch & Brake*

*2 x anchors of 600 Kg each y 10 shackles of anchor chain (5+5) of 22 mm Gr2*

*Both winches (fore & aft) are driven each individually by and electro hydraulic pump coupled via on electro magnetic clutch to a power take off to the starboard main engine as well as to another pump coupled to an auxiliary engine which also drives the bow thruster via another power take off.*

### *Fast rendering*

*Both winches share this feature and are equipped with an electro pump as well a hydro battery for unblocking of both brakes and clutches in case of emergency, this operation is either controlled from the bridge or on location of both winches.*

### *Capstan*

*Make : IBERCISA electrical of 15 Kw, 5 tons pull at 15 m/minute, fitted with an electro magnetic brake.*

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## *Line winches*

*2 x IBERCISA electrically driven fore & aft.*

## *Rope winches*

*Hydraulically driven, capacity : 200 m of rope.*

## *Towing Hook*

*Make : FERRI 1514 of 75 Tns, fitted with automatic release device, shock absorber and maximum list automatic release.*

## *Deck Crane*

*PALFINGER PK12080M of 6,560 tons / 0, 930 tons at 11 metres.*

*Fitted with and electro hydraulic winch of 2,5 tons..*

## *Fire Fighting*

*1 x FiFi Pump KVAERNER 250 x 350 OGF II, 2.700 m<sup>3</sup>/hour, declutchable.*

*Exlusive seachest and valve, fitted with remote control.*

*2 x fire fighting monitors for water/foam mixture with a capacity of 1.200 m<sup>3</sup>/hours each, both remote controlled., 15 bar at 60 m height y 190 m range In case of emergency, both monitors may also be controlled manually.*

*Fitted with nozzles for water spay abt 300m<sup>3</sup>/hours. Connectors for hoses STORZ type on deck as well as a connection for external water supply.*

*A Water/ Dispersant provider PR-6 190 l/ min.*

*2 x dispersant booms of 6 metres long fitted with 5 sprinklers each.*

*1 x Pump for sw/dispersant of 10 m<sup>3</sup>/tour at 5 kg/cm.Make : AZCUE.*

*1 x dosification pump, 2000 l/hour Make AZCUE BO-19/10, fitted with a flow meter.*

*4 x Firemen's suits fitted with breathing devices including a compressor to produce breathable air..*

*Sufficient hoses to comply with FIFI-1.*

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## Propulsion & auxiliary machinery

### *Main Engines*

*2 x MTU 4000 M61, of 2.000 Kw at 1800 r.p.m. V 16*

### Reduction Gear

*2 x REINTJES LAF 843 L, reduction 1,974 : 1*

### Azimuthal propulsion

*2 x SCHOTTEL SRP 1515, CPP. 2600 mm diameter, reduction 4,47 : 1*

### *Auxiliar engines*

*2 x CATERPILLAR 3056T, 124 BHP at 1500 r.p.m. couple to 2 x generators CATERPILLAR of 105 Kva each.*

*1 x MTU S60 of 447 Kw at 2100 R.P.M. ti drive the bowthruster and winch.*

### Bow Thruster

*1 x SCHOTTEL, STT 110 LK, of 200 Kw at 1470 r.p.m. 800 mm diamand 28 Kn pull.*

### Bridge & Navigational electronics

*GMDSS Zonas A1 – A2 y A3.*

*1 Radar JRC JMA – 5310- 6*

*1 Radar JRC JMA-2343.*

*1 Sonda JRC JFE-380*

*1 GPS JRC 112MAV500.*

*1 PC fitted with electroci chart software.*

*1 Radar Transponder JOTRON TRON SART.*

*1 NAVTEX JRC modelo NCR333.*

*1 A.I.S JRC JHS-182*

*2 Portable VHF JOTRON TRON TR20 para GMDSS.*

*1 Radio beacon JOTRON TRON 40S.*

*2 INMARSSAT RT-5022*

*1 SAILOR SYTEM 5000 (250W.)*

*2 VHF SAILOR H-2095 C*

*Closed circuit TV with 5 cameras, 2 in the engine room, 2 on the control room and 1 on the aft winch, TV monitor on the bridge.*

All details believed to be correct, but cannot be guaranteed.

- **Priceidea : 6,9 mio Euros.**
- **Inspection ppmt Santander**
- **Delivery : in 3 weeks/1 months Santander**

All inquiries to Atlas Shipbrokers.

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