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## 2002 AHTS Vessel for Private Sale

275TBP / DP 2 / 640m<sup>2</sup> Deck Space / 2002 Built with Accommodation for 50



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## Vessel Particulars

**Built at:** Ulstein Shipyard, Norway  
**Type:** Ulstein A101 Multi-functional Offshore Service Vessel (MOSV)  
**Delivery:** January 2002

### Main Particulars

Length o.a.	82.10m
Lpp	72.70m
Breadth moulded	20.00m
Depth to main deck	9.50m
Design draft	7.50m
Freeboard max draft	2.00m
GRT	4477 GRT
Net	1343 NRT
DWT	3738 t
Deck area/load	640m <sup>2</sup> /1550 t

### Class

DNV +1A1, Tug, Supply Vessel, SF, OILREC, E0, DynPos-AUTR, Ice C, DK(+), HL(2.5)

### Cargo Capacities

Fuel oil	1191m <sup>3</sup> (OPT 2111m <sup>3</sup> )
Ballast/Drill water	3360m <sup>3</sup>
Pot. Water	1161m <sup>3</sup>
Brine (SG2.5)	405m <sup>3</sup> (2x129m <sup>3</sup> / 2x74m <sup>3</sup> )
Base oil	405m <sup>3</sup> (Combined brine base oil)
Liquid mud (SG2.5)	545m <sup>3</sup> (4x136m <sup>3</sup> circular w. agitator- tank wash)
Cargo rig chain lockers (4 circular tanks)	565m <sup>3</sup>
Slop	26,2m <sup>3</sup> (2 tanks)
Hot water slop	7,6m <sup>3</sup>

### Discharge Capacities

Fuel oil pump hydr. driven (ORO pump)	2 x 150m <sup>3</sup> /h – 9 bar
Ballast water hydr. driven (ORO pumps)	2 x 220m <sup>3</sup> /h – 9 bar
Potwater pump, 2 speed el. Driven	1 x 150m <sup>3</sup> /h – 9 bar
Potwater pump, hydr. driven	1 x 150m <sup>3</sup> /h – 9 bar
Brine/base oil pump, 2-speed el. Driven	1 x 90m <sup>3</sup> /h – 24 bar
Brine pump, hydr. driven	1 x 75m <sup>3</sup> /h – 24 bar
Liquid mud pump, 2-speed el. Driven	1 x 75m <sup>3</sup> /h – 24 bar
Liquid mud pump, hydr. driven	1 x 75m <sup>3</sup> /h – 24 bar
Discharge stations	Both sides midship and aft
Disch. Lines/Couplings	Weco 4"/5" Female/Avery Hardol on fuel
Agitators hydr. driven for all 4 mud	
Flowmeter for fuel oil cargo	

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### Propulsion / Machinery

Main engines	4 x Wartsila engines, Total propulsion 23500 HP at 750 rpm
Shaft generators	2 x 3500 kVA (690 Volt AC – 50 – 60 Hz)
Aux. engines	2 x Mitsubishi, 1 x 2000 kVA, 1 x 700 kVA 1 x Emergency generator, 130 kVA
Main propellers	2 x CP Main propellers in Nozzle ø 4400 mm/speed 140 rpm
Bow thrusters	1 x 1600 BHP tunnel 1 x 1500 BHP azimuth frequency driven
Stern thrusters	2 x 1200 BHP tunnel
Rudders	2 x High Lift Flap Rudders
Bollard pull	275 t

### Electric equipment

Main switchboard	690 V, 440 V, 230 V
Emergency switchboard	
40kW Clean Power rotating converter	
Motor Control Centres	
UMAS V Alarm and monitoring system	
500 kW 440 V outlet in deck store / 40 kW 230 V outlet in deck store	

### Fresh water generator

One FW generator, capacity 12m<sup>3</sup> per 24 hrs.

### Roll Damping System

Two Passive Stabilizing Tank systems

### Speed and Consumption

In port	2.0m <sup>3</sup>
Standby offshore	5.0m <sup>3</sup>
Economic steering at 12 knots	23.0m <sup>3</sup>
Max. cont. speed at 15 knots	37.0m <sup>3</sup>
Towing 240 T at 2 knots	83.0m <sup>3</sup>
Towing 260 T at 2 knots	94.0m <sup>3</sup>
Full speed	19.0kts

### 500 t Towing/Anchor handling Equipment (Trippel winch)

Towing winch	1 x towing/working drum with spooling gear. Capacity 2700m of 83mm ø wire. Low gear 400t at 0-21 m/min. Brake holding load 625 t 1 <sup>st</sup> layer. Drum ø 1500mm.		
A/H winch	1 x towing/working drum with spooling gear. Capacity 2700m of 83mm ø wire. Low gear 400 t at 0-21 m/min. Brake holding load 625 t 1 <sup>st</sup> layer. Drum ø 1500mm.		
A/H winch	1 x anchor handling drum with spooling gear. Capacity 2000m of 109mm ø wire in 5 layers. Low gear 500t on 1st layer 0-17 m/min. Brake holding 575t 1 <sup>st</sup> layer. Drum ø 2800mm. Extra wire pocket.		
Secondary winches	2 x secondary winches with spooling gears pull 170 t. Capacity 1600m of 8inch. synthetic rope, or 9000m of 84mm wire each. Drum ø 1500mm. Extra wire pocket.		
Storage winch	1 x storage winch for spare tow wire, pull 15 t Capacity 1500m x 83mm ø wire		
Chain lockers	565m <sup>3</sup> (2x135.1m <sup>3</sup> / 2x147.5m <sup>3</sup> )		
Chain capacity:	Chain dim.	Studded chain	Studless chain
	76mm	8200m	8800m
	95mm		7500m
	124mm		5700m
			3400m

(The lengths are approx. and will vary depending on the stowing factor chain/tank)

Shark Jaw	2 x 750 t SWL max chain ø 165mm (6")
Towing pins	4 x 300 t MBL, closed
Karm Fork inserts	1x74mm, 2x84mm, 2x95mm, 2x105mm, 2x130mm
Gypsies/Cable lifters	2x76, 2x84, (1x90), 1x95, (1x108), 1x124, 1x130mm
Grapple	1 x 200 SWL
Chaser	1 x 200 SWL
Stern roller	1 x 650t SWL – 6.0m x 4.0m ø
ROV deck	36m <sup>2</sup>

#### **Video and monitoring system**

A CCTV system (9 cameras) for surveillance of main winches area.

#### **Deck Machinery/Mooring Equipment**

Tuggerwinch	2 x 22t, capacity 600m x 77mm wire
Capstans	2 x 15 t
Anchors speck	2 x 3540kg
Chain cables	46mm K3, 1 x 550m stbd + 1 x 440m port
Windlass	One / mooring winch
Deck crane aft	1 x 1.1 t SWL at 12.3m
One knuckle jib sub-sea crane port (ROV crane)	1 x 10 t SWL at 15m
One knuckle jib sub-sea crane stbd.	1 x 20 t SWL at 13m (15t at 16m) single fall wire length 500m. Dyn factor 2.0
A-Frame	200–250 t SWL aft
<b>Oil Rec/ Anti Pollution</b>	
Capacities	1032.8m <sup>3</sup> NOFO 2000/DNV
Dispersant booms/tanks	NA

#### **Accommodation**

The vessel is built with a compliment for totally 50 persons, with the following room distribution:

- Two of one-bed state cabins with day room and bedroom
- Five of one-bed state cabins
- Eleven of one-bed cabins
- Sixteen of two-bed cabins

*All cabins with separate toilet/shower.*

- Mess room, Day room, and Smokers' lounge in vicinity of galley
- Laundries, hospital, wardrobe
- Dry provision, refrigerated room, and freezer room
- Offices and Conference room

#### **Manoeuvring /Positioning**

- Joystick
- Dynamic Positioning system DNV AUTR (DP II)
- Position Reference Systems:  
2 x DGPS, Fanbeam, Hydro acoustic HiPAP 500

#### **Navigation Equipment**

S-band Arpa Radar and x-band TM radar  
Electronic chart system: Kongsberg SP10  
Radio installation acc. to GMDSS area 3, Inmarsat B and Inmarsat C

#### **Miscellaneous**

Advanced digital automatic telephone system, combined loudhailer and talkback system  
Battery-less telephone system -separate PA system.  
TV satellite antenna - internet - v-sat - Cable distribution for data network to all offices and cabins.  
1 x FRC with approved one-armed davit  
6 x life rafts for 25 persons