

# ASD TUG 2009

APRIL 2017







## CHARACTERISTICS

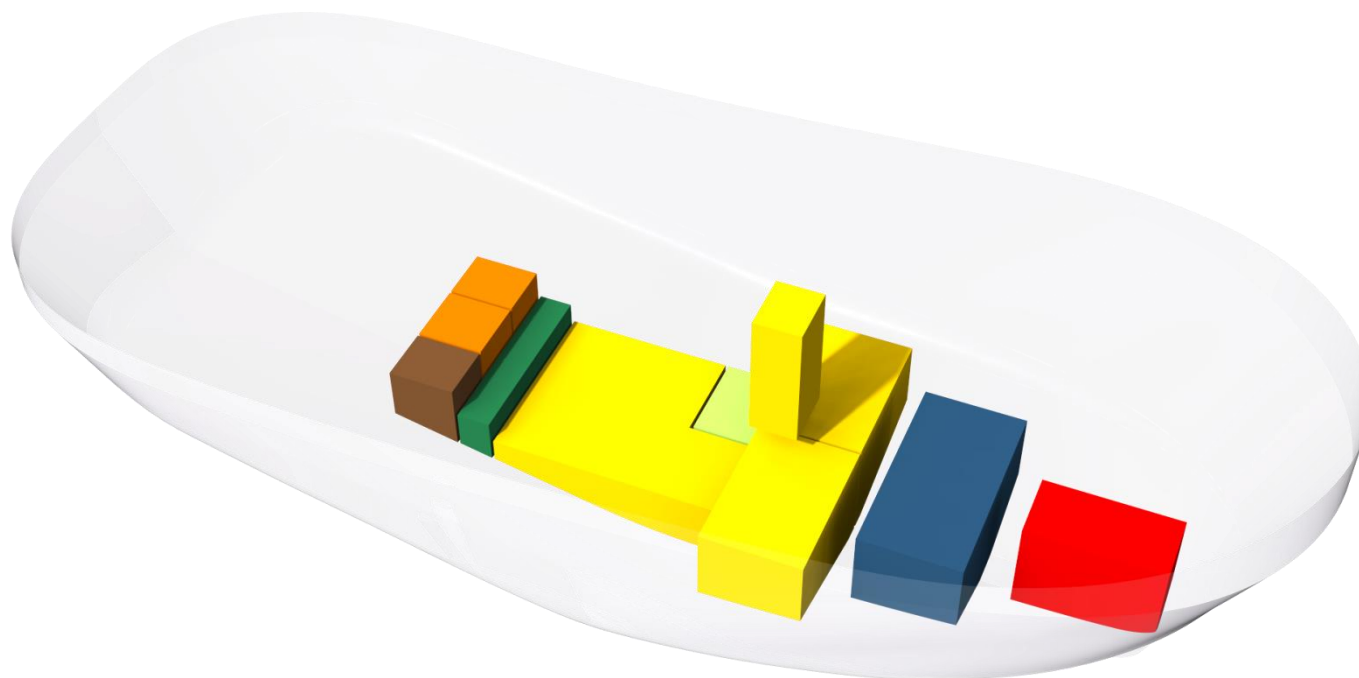
### Main dimensions:

Length over all	21.19	m
Breadth over all	9.43	m
Depth at side	4.00	m
Draught aft	3.90	m
Full displacement	275	ton
Power	1790	kW
Bollard pull ahead	27.3	ton
Bollard pull astern	25.1	ton
Speed ahead	11.1	knots


Class BV I ✕ HULL • MACH Tug Coastal Service AUT UMS



## TANK CONFIGURATION



### Capacities:

	Fuel oil	21.6 m <sup>3</sup>		Dirty oil	1.0 m <sup>3</sup>
	Fresh water	8.0 m <sup>3</sup>		Lubrication oil	1.0 m <sup>3</sup>
	Sewage	1.6 m <sup>3</sup>		ø Foam	3.8 m <sup>3</sup>
	Bilge water	1.3 m <sup>3</sup>			

ø = optional equipment



## PROPULSION SYSTEM

### CATERPILLAR C32 TTA ACERT/B



- 12 cylinder V-type
- Electronically controlled injectors
- Emissions compliant with EPA and IMO Tier 2
- Maximum power 1790 kW at 1800 rpm
- Resiliently mounted main engine

### SCHOTTEL SRP 550



- Straight shaft line with bow teeth coupling
- Built-in on/off clutch
- CuNiAl fixed pitch 1750 mm propeller
- Modified type 19A nozzle with stainless steel inner plate
- Carbon composite shaft line

## ENGINE ROOM LAYOUT



### ENGINE ROOM

- Standard bilge/fire fighting module
- Closed cooling water systems with box coolers
- Internal fire fighting engine room (Novec 1230)
- Forced engine room ventilation
- 45 dB(A) exhaust dampers
- 2 generator sets 64.5 kVA each

#### Optional equipment

- Sewage treatment plant
- External fire fighting set: 600 m<sup>3</sup>/h

## MAIN DECK LAYOUT



### FORE DECK

Spacious unobstructed fore deck with:

- Towing bitt
- Stainless steel fairleads
- Heavy duty rubber fendering system and bow fender
- Hydraulic single drum anchor/towing winch
  - Pull 10 ton up to 30 m/min
  - Brake holding force 75 ton
  - Rope 100 meter ø 60 mm

## MAIN DECK LAYOUT



## AFT DECK

- Heavy duty rubber fendering
- Flush engine room hatch
- Towing bitt with fairlead
- Towing hook 45 ton

### Optional equipment:

- Electric capstan, 3 ton at 15 m/min
- Hydraulic single drum towing winch
  - Pull 10 ton at 30 m/min
  - Brake holding force 75 ton
  - Wire 200 meter  $\varnothing$  40 mm
- Hydraulic deck crane max. lifting capacity 1.7 ton at 10.56 m



## WHEELHOUSE LAYOUT

### ERGONOMICS



- Modern and efficient standard layout
- Excellent all round view
- Ergonomic designed consoles
- Chart table with drawers

### COMFORT



- Helmsman's seat at center line
- Ventilation, air-conditioning and heating
- Noise level in the wheelhouse 65 dBA
- UMS alarm panels
- Navigation equipment conform GMDSS area 1 (2 or 3)
- Towing winch foot control

## ACCOMMODATION LAYOUT

### COMFORT



- Modern linings
- Floating floor
- Complete insulated
- Air-conditioning

### STANDARD OUTFITTING



- Accommodation for 5 persons
- Galley with modern equipment
- Mess room
- Toilet space
- Shower
- Washing machine and tumble dryer
- Store with wooden shelving

## BUILDING YARD

### Hull construction and outfitting:

Damen Shipyards Changde, China





## Recently delivered:

YN 512401 - UK  
YN 512402 - UK  
YN 512403 - UK  
YN 512404 - UK  
YN 512507 - Australia

## Under Construction:

YN 512405 – UAE

## In Stock:

YN 512406  
YN 512408



## SERVICES

### AFTER SALES DEPARTMENT



- Short delivery time for components
- Complete package of components
- Maintenance Management Solutions
- Registration of components

### DAMEN FIELD SERVICE



- Post delivery support
- Warrantee and after sales services
- Training courses (in house and on site)
- Technical check-ups



TECHNICAL SPECIFICATIONS

REFERENCES

CONTACT PARTICULARS

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**STANDARD OF EXCELLENCE**



