



# Subtech 41 tug boat

## Vessel identification

The Subtech 41 is a Damen Shoalbuster 2509 and is designed for multiple roles undertaking varied assignments in diverse working environments. For example: towing, mooring, pushing, anchor handling and dredging support. It is capable of working in shallow as well as deeper water, often with limited manoeuvrability. The bollard pull is designed for heavy duties with an optimum bollard pull in combination with a shallow draft.

Type of vessel	Shoalbuster / tug boat
Build date	2018
Classification	Bureau Veritas I * hull - MACH tug unrestricted nav, AUT-UMS
BV registration no.	22722A
IMO no.	9696486
Flag	Panama

## Dimensions and weight

Gross tonnage	177 tons
Net tonnage	141 tons
Overall length	24.88m
LPP	22.54m
Breadth	9m
Depth	3.4m
Draught	2.6m
Displacement	256 tons
Freeboard	515mm

## Accommodation

Heated and airconditioned	1 x Captain cabin
	1 x Officer cabin
	4 x Crew cabins
Facilities	Galley
	Sanitary

## Performance propulsion system, tank capacity

Bollard pull ahead	Max static bollard pull of 27.8 Ton
Speed	11.5 knots
Main engine	2 x Caterpillar C32 TTA ACERT
Total power	1790 kW at 1800 rpm
Gear boxes	2 x Twin disc MGX5321 6.39:1
Propulsion	2 x Promarin fixed pitch propeller
Nozzles	2 x 1800 mm Van de Giessen "Optima"
Bow thrusters	175 bph, hydraulic driven
Fuel tank	62.3m <sup>3</sup>
Fresh water	22.4m <sup>3</sup>
Lubrication oil	1.9m <sup>3</sup>
Hydraulic oil	0.9m <sup>3</sup>
Bilge water	0.9m <sup>3</sup>
Sewage	4.7m <sup>3</sup>
Gear oil	0.4m <sup>3</sup>

## Deck layout

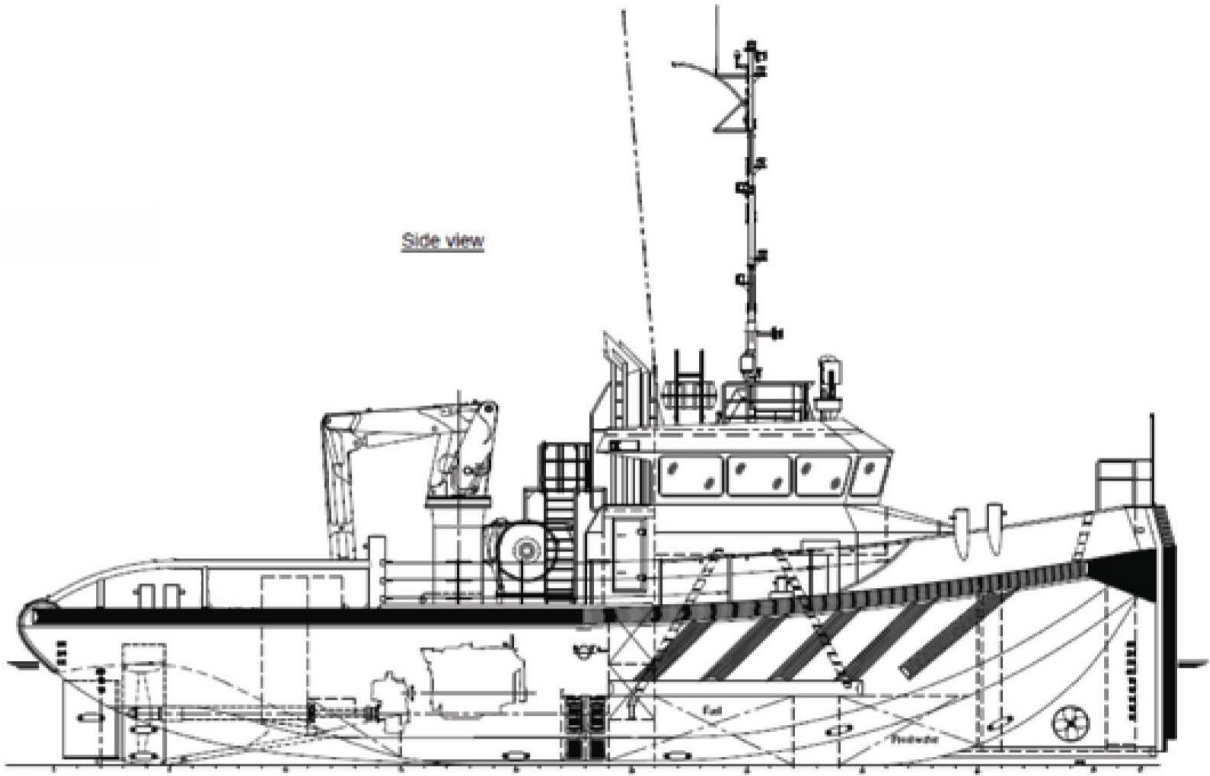
<b>Anchors</b>	1 x 225 kg
	1 x 370 kg
<b>Chain</b>	1 x 135.5m 19mm short link
	1 x 137.5m 19mm short link
<b>Anchor winch</b>	Kraaijeveld hydraulically driven
<b>Deck crane</b>	Heila AKC 120-4SL 4300kg at 18.03 m
<b>Anchor handling</b>	40 tons at 6 m/min (towing winch)
<b>Acc. to reg. of</b>	9 tons at 18 m/min
<b>Towing pins</b>	WK 35 tons
	SWL 4-pin/75 tons stopper
<b>Tugger winch</b>	Kraaijeveld 8T at 4.5 m/min

## Auxiliary equipment

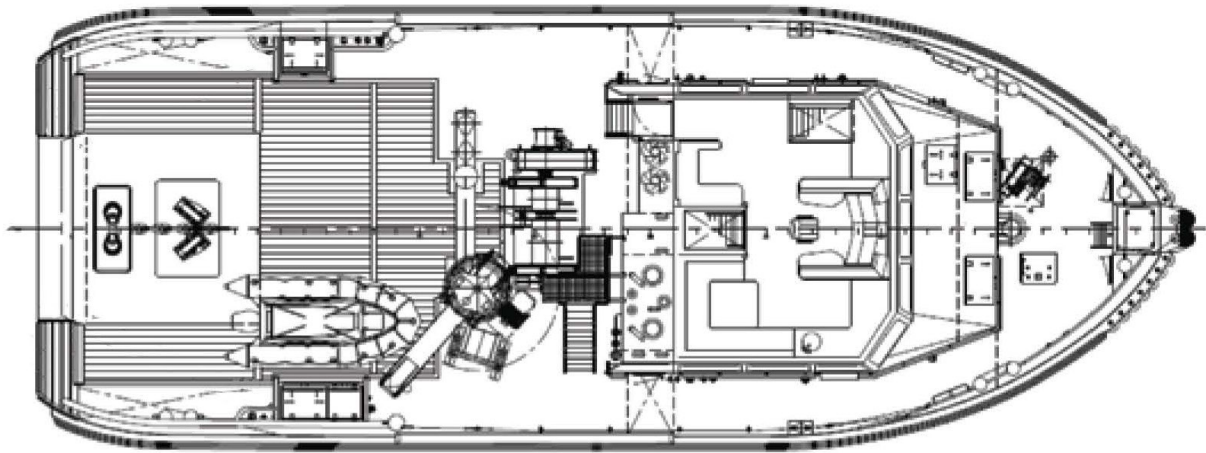
<b>Generator sets</b>	2 x Caterpillar C4.4 NA
<b>Capacity</b>	2 x 47.5 kVA, 50 Hz, 230/400V
<b>Fresh water transfer pumps</b>	SIHI 34m <sup>3</sup> /h
<b>Fuel oil transfer pumps</b>	SIHI 34m <sup>3</sup> /h
<b>Fuel oil separator</b>	Alfa Laval MIB 303
<b>Hydraulic set</b>	Caterpillar C-09 TA 269KW at 1800 RPM w/ techno drive splitter gearbox



Side view



Main deck



Below main deck

