



# AZIMUTH STERN DRIVE TUG 3010 ICE

## "TOKI"

### GENERAL

Yard number	512615
Delivery date	October 2019
Basic functions	Towing, mooring and fire-fighting operations
Classification	Russian Maritime Register of Shipping (RMRS) KM Arc4 R1 AUT1 IWS ESCORT Tug FF3WS Incl. tonnage and loadline certificate GMDSS certificate A3
Flag	Russia
Owner	VANINOTRANSCOIL JOINT-STOCK COMPANY

### DIMENSIONS

Length overall	29.84 m
Beam overall	10.43 m
Depth at sides	4.60 m
Draught aft	4.90 m
Displacement (98% consumables)	575 t

### TANK CAPACITIES

Fuel oil	72.3 m <sup>3</sup>
Fresh water	14.5 m <sup>3</sup>
Lubrication oil	3.4 m <sup>3</sup>
Dirty oil	3.1 m <sup>3</sup>
Hydraulic oil	0.36 m <sup>3</sup>
Sewage	2.2 m <sup>3</sup>
Sludge	3.1 m <sup>3</sup>
Bilge water	5.4 m <sup>3</sup>
Foam	6.5 m <sup>3</sup>

### PERFORMANCES

Bollard pull ahead	59.5 t
Bollard pull astern	57.4 t
Speed ahead	13.9 kn
Speed astern	13.3 kn

### PROPULSION SYSTEM

Main engines	2x Caterpillar 3516C HD TA/B
Total power	3840 bkW (5150 bhp) at 1600 rpm
Azimuth thrusters	2x Rolls Royce US 255
Propeller diameter	2400 mm
Forced ventilation	55.000 m <sup>3</sup> /h

### AUXILIARY EQUIPMENT

Generator sets	2x Caterpillar C4.4 TA, 230/400 V, 107 kVA, 50 Hz
General service pumps	2x Sterling AKHA 5101 each 20 m <sup>3</sup> /h at 1.4 bar
Fuel pumps	Sterling AKHA 4101 and AOHA 3101
Fuel oil purifier	Westfalia OTC 2-02-137, 1150 l/h
Cooling system	Keel cooling channels
Fresh water pressure set	Sterling HBK 111 / AOHA 1202
Hydraulic system	Double main engine driven pumps
Fifi set	Diesel driven pump 1300 m <sup>3</sup> /h
Fifi monitor	2x 500 m <sup>3</sup> /h, water/foam

### DECK LAY-OUT

Anchors	2x 360 kg Pool (High Holding Power)
Anchor/towing winch	Hydraulically driven two speed winch with split drum and warping head, pull 35 ton at 9.2 m/min at second layer and slack rope speed at 27 m/min at second layer, 150 ton brake
Capstan	Electrically driven, 5 ton at 15 m/min
Towing hook aft	SWL 65 ton
Crane	Heila HLM 10-3S 0.8 ton at 10.36 m
Fendering	D-fender + cylindrical fender at transom corners, cylindrical and W-block bow fender with waterspray and tyre fenders at fore and aft ship

### ACCOMMODATION

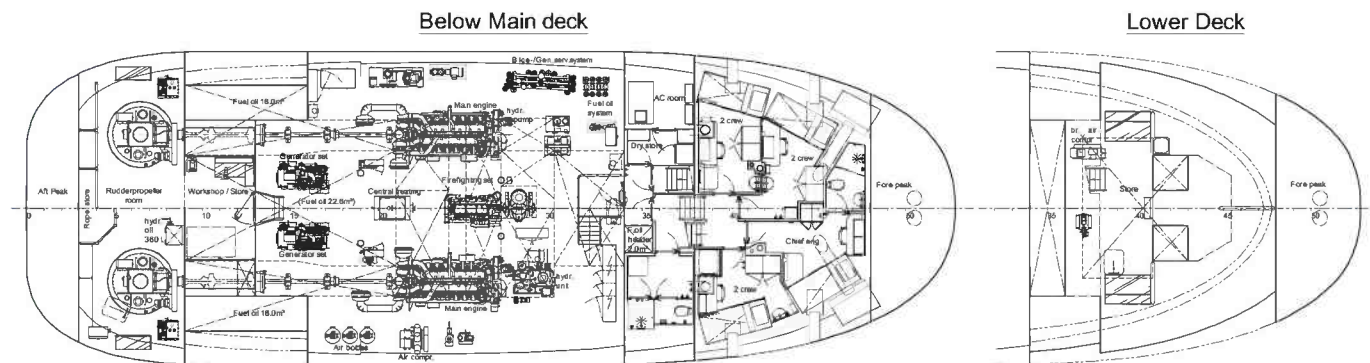
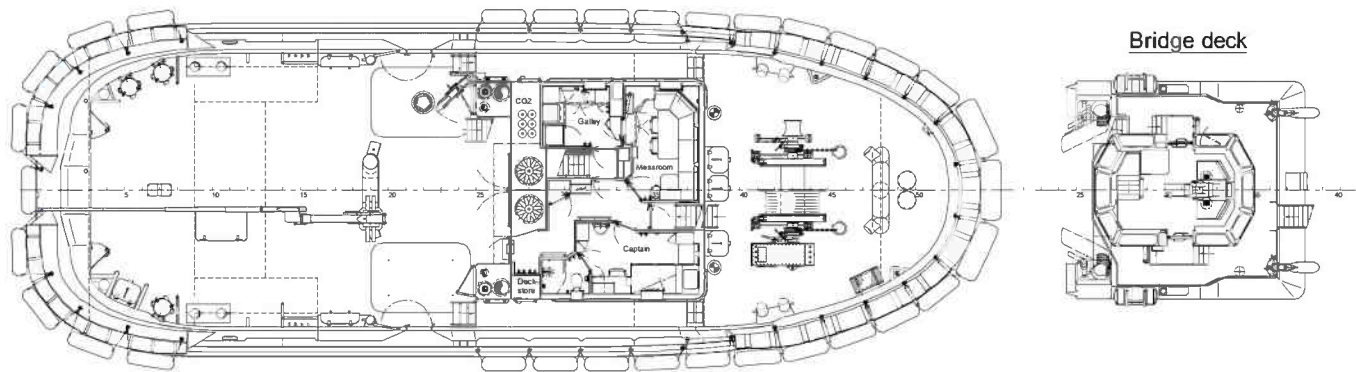
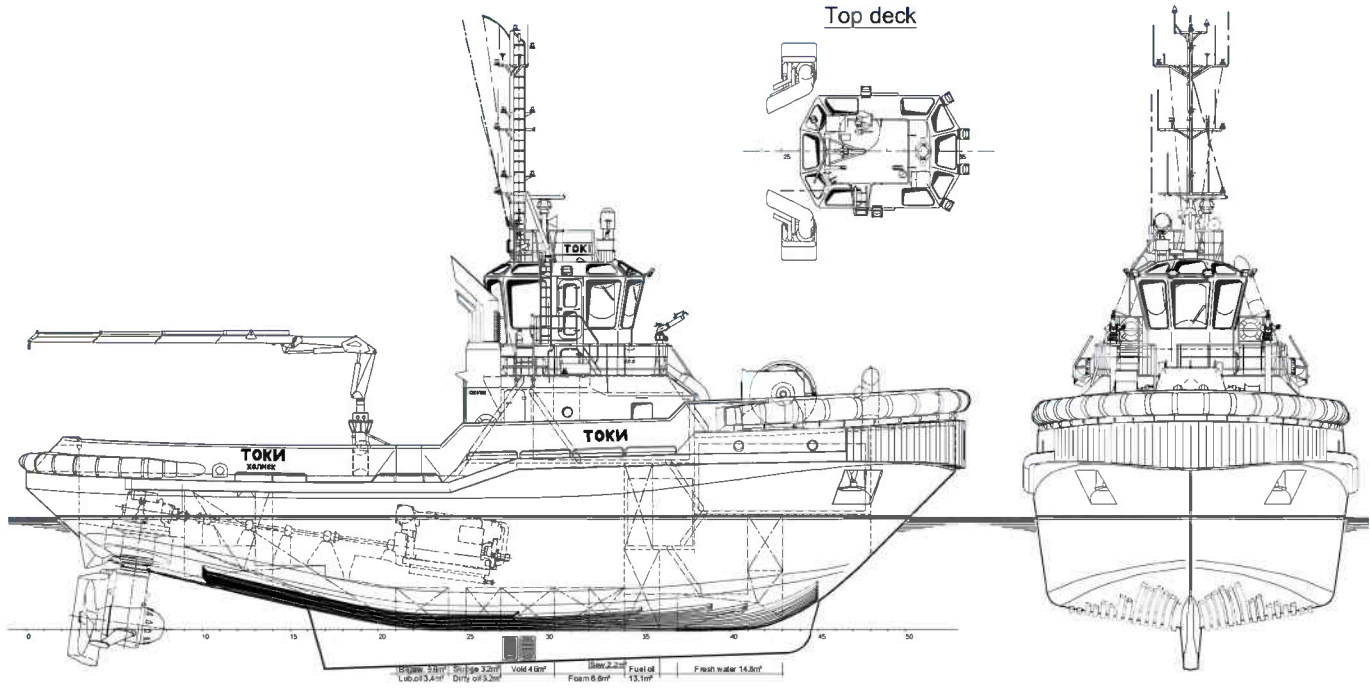
For 8 persons, insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse, floating floors, oil fired central heating system and air-conditioned. With 5 cabins, galley, mess/dayroom, dry store and sanitary facilities.

### NAUTICAL AND COMMUNICATION EQUIPMENT

Searchlight	2x Norselight 2000 W
Radar system	Furuno FAR-2117
Single ECDIS	Transas NS 4000
Compass	Cassens & Plath, type Kotter
Satellite compass/GPS	Furuno SC-70
Autopilot	Simrad AP-70
GPS navigator	Samyung SGN-500
Echosounder	Furuno FE-800
VHF radio telephone	2x Sailor Compact 6222
VHF hand-held	2x Jotron TR-20
Navtex	Furuno NX-700A
AIS	Samyung SI-30
SSB	Furuno FS-1575
Inmarsat	2x Furuno Felcom 18, 1x with LRIT
EPIRB	Jotron Tron 60S
Sart	Jotron Tronsart20
Anemometer	Observer Windsonic OMC 115
Weather fax	Furuno SFAX-500

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