

# TUGBOATS

## 32 m x 55 TBP KENTON MARINE DESIGN

### GENERAL

BASIC FUNCTIONS	Towing, mooring, salvage, fire-fighting
DESIGN	Kenton Marine / Singapore
CLASS	Bureau Veritas, I Hull Machinery, Salvage Tug / Fire Fighting Ship 1, Unrestricted Navigation, AUT UMS
FLAG	Turkish
PORT OF REGISTRY	Istanbul
BOLLARD PULL	abt. 55 tonnes According to propulsion and main engine's companies confirmations tug's bollard pull max 59 – 60 tons (which needs to be seen during sea trials)
SPEED	abt. 13 knots
GRT/NRT	abt. 389/117
ACCOMMODATION	for 14 persons

### DIMENSIONS

LOA	32 m
BM	10.50 m
DEPTH	5.30 m
MAX.DRAF	4.30 m

### TANK CAPACITIES

FUEL OIL	abt. 200 t
FRESH WATER	abt. 33 t
FOAM	abt. 17 t
BALAST WATER	abt. 60 t

### MAIN EQUIPMENT LIST

MAIN ENGINES	2x Wartsila 9L20 diesel engines / 1800 kW / 1000 rpm
BHP	4900
AZIMUTH THRUSTER	2X Schottel SRP 1215 CP / 1800 kW / 1000 rpm
FI-FI SYSTEM	FFS / External fi-fi system Fi-Fi II notation Water monitor: 1 off remote operated monitor FFS1200 short barrel with remotely operated deflector. Water capacity of 1200 m <sup>3</sup> /h. Water/foam monitor: 1 off remote operated monitor FFS1200/300 short barrel with remotely operated deflector. Water/foam capacity of 1200/300 m <sup>3</sup> h Water spray (curtain type): 1 off complete system for vessel self protection. Gearbox: 2 off step up gearbox type KUMERA fgec-280 remote operated.
GENERATOR	Man LindenberG – Anlagen GMBH / LIAG 2X classified Liag/Man emergency Marine diesel generating set 144 kW / 180 kVA by 1500 rpm 50 Hz
TOWING WINCHES	Data Hidrolik DTW 20x110 H2, hydraulic double drum aft towing winch with two rope drums, one warping head. Spooling gear fitted on drums. Wire capacity : 2x600 m and diameter of 48 mm.  DFW 20x110 HZ hydraulic fore towing winch and combined anchor windlass with one rope drum, two cable lifters and two warping heads. Spooling gear fitted on drum. Wire capacity: 220 m of diameter 56 mm. Reel winder: DRW 4E with one rope drum. Wire capacity: 600 m of diameter 48 mm.
TOWING HOOK	Data Hidrolik DTH 65-130 P type safe working load: 65 tons/test load: 130 tons One rotating disc and quick release type, pneumatic release local or remote control.
ANCHOR	2x660 kg
CHAINS	2x9x27.5 m U2 grade , 22 mm diameter
CRANE	1x5 tons 3 m, max. outreach 10.2 m
LEFT RAFT	2x16 PA
LIFE BOATS	1 unit

### COMMUNICATION EQUIPMENT

GMDSS sea area A3

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