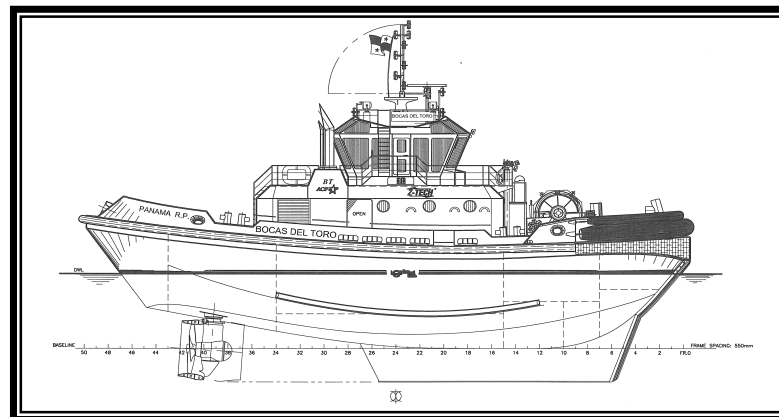


Panama Canal Authority – Tugboat Fleet – Principal Particulars



DARIEN

GENERALS

Owner	: Panama Canal Authority
Owner/operator	: Panama Canal Authority
Category	: Harbor tug
Type	: Z-Tech 6000
Year of built	: 2007
Shipyard	: Shipyards Cheoy Lee Ltd. y Shipyards Hin Lee Ltd, China
Hull number	: 4893
Class notation used for construction	: LR + 100 AN Tug, +LMC UMS
Flag	: Panamá
Port of registry	: Balboa, Panamá
Call sign	: HO-2192
Bollard pull	: About 61 tons
Speed	: 12 knots

DIMENSIONS

GROSS TONNAGE (GRT)	: 327 tons
Length overall (LOA)	: 27.4 m
Beam	: 11.65 m
Max. draught	: 5.33 m
Moulded depth	: 5.00 m

TANK CAPACITIES

Fuel	: 110.7 m ³
Fresh water	: 12.2 m ³
Foam	: 7.0 m ³

PROPULSION

Main engines	: 2 Wärtsilä
Model	: 9L20
Main power	: 2 x 1800KW @ 1000rpm, 4,826 HP
Propulsion	: Azimuthal, Wärtsilä Lips FS250-S/BN-K
Propulsion description	: 2 Kort Nozzles, 2400 mm Ø fixed pitch and rotated 360°

FIRE FIGHTING EQUIPMENT

Centrifugal Pump	: 1136 m ³ /hr @ 12.00 Kg./cm ² .
Firefighting monitor	: FFS600

TOWING EQUIPMENT

Two (2) Hydraulic Towing Winches at the bow	
Maker	: Corporation Plimsoll Pte. Ltd.
Model	: PC-HTW/SD-06/180-L
Drum capacity	: 185 m x 178 mm circumference line
Rate pull	: 6.0 T (pull) @ 25 m/min.
Drum brake capacity	: 180 T

One (1) hydraulic capstan at the stern	
Maker	: Corporation Plimsoll Pte. Ltd.
Model	: PC-HVC-10/450
Drum diameter	: 450 mm
Rate pull	: 10 T (pull) @ 12 m/min