



RIO INDIO

GENERAL

Registered Owner	:Panama Canal Authority
Owner/Operator	:Panama Canal Authority
Category	:Harbor Tug
Type	:Z-Tech
Built	:2008
Yard	:Cheoy Lee Shipyards Ltd. Hin Lee (Zhuhai) Shipyards Ltd.
Hull No.	: 4896
Built to Class	:LR 100 A1 Tug, +LMC UMS
Flag	:Panama
Port	:Balboa, Panama
Call Sign	:HO-5064
Bollard Pull (t)	:About 61
Speed (Knots)	:About 12

TONNAGE/DIMENSIONS

GRT(t)	:327
LOA (m)	:27.4
Beam (m)	:11.65
Draught (m)	:5.33
Depth (m)	:5.00

MACHINERY

Main Engines(s)	:2
Make	:Wartsila
Model	:Wartsila 9L20 2 x 1800kW @ 1000rpm
BHP	:4,800
Propulsion	:LCT FS 250-S/BN-K (LCT= Lips Controllable Thruster)
Propulsion description	:Twin Screw, fixed pitch, in 360° steerable HR Nozzles.

TANK CAPACITIES

Fuel Oil (m ³)	:110.7
Fresh Water(m ³)	:12.2

EMERGENCY INTERVENTION

Vessel is fitted with a fire fighting pump rated at 1136 m³/hr @ 120 mlc.
 Vessel has two (2) 3.4 m³ Fire Fighting Foam Tanks.
 Vessel has one (1) Fire Fighting Systems FFS600 Firefighting Monitor of 600 m³/h @ 11 bar.

TOWING EQUIPMENT

Vessel is equipped with two (2) Hydraulic Towing Winches on the bow and a Hydraulic Vertical Capstan on the stern with the following characteristics:

Forward Hydraulic Towing Winch specifications:

Manufacturer	:Plimsoll Corporation Pte. Ltd.
Model	:PC-HTW/SD-06/180-L
Drum capacity:	185 m of 178 mm circumference of synthetic line.
Rope Reeling Rating	:6.0 T PULL @ 25 m/min.
Drum Brake Capacity	:180 T

Aft Hydraulic Vertical Capstan specifications:

Manufacturer	:Plimsoll Corporation Pte. Ltd.
Model	:PC-HVC-10/450
Warping Head Diameter	:450 mm
Bollard Rating	:10 T x 12 m/min