

## Panama Canal Authority – Tugboat Fleet – Principal Particulars



**ESPERANZA**

### GENERAL

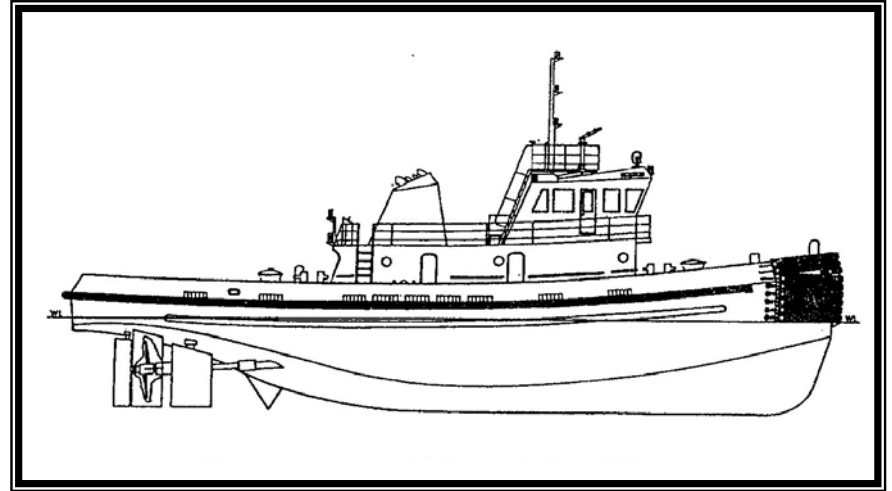
Registered Owner : Panama Canal Authority  
Owner/Operator : Panama Canal Authority  
Category : Harbour Tug  
Type : Conventional Twin Screw  
Built : 1985  
Yard : Houma Fabricators Inc.  
Hull No. 85 – U.S.A.  
Classification : ABS (Declassed)  
Flag : Panama  
Port : Balboa, Panama  
Call Sign : HP-9794  
Bollard Pull : About 38.0 tons  
Speed : 12 Knots

### TONNAGE/DIMENSIONS

GRT : 253.00 tons  
LOA : 99 ft 0 in  
Beam : 30, 0 ft  
Draught : FWD 12 ft 0 in; AFT 12 ft 0 in  
Moulded Depth : 13 ft 7 in

### TANK CAPACITIES

Bunker : 30,749 Gal  
Fresh Water : 7,636 Gal  
Foam : 1,200 Gal



### MACHINERY

Main Engine(s) : 2  
Make : General Motors EMD  
Model : 645-E6  
BHP : 3,000  
Propulsion : British "Towmaster" System  
Propulsion description : Twin Screw, fixed pitch  
Kort Nozzles Towmaster nozzle  
Multiple – rudder system  
Three rudders aft of the nozzles  
and two forward

### EMERGENCY INTERVENTION

One (1) 2-Stage Centrifugal Pump : 1,500 GPM @ 150 PSI  
One (1) Firefighting Monitor : SKUM MK 100

### TOWING EQUIPMENT

Two (2) Vertical Capstans, One (1) on the bow and One (1) on the stern

Manufacturer : Markey Machinery Company Inc.  
Model : CYP 90  
Barrel Diameter : 27 inch  
Bollard Rating : 50 ft/min @ 6 tons Pull  
: 110 ft/min @ 3.5 tons Pull