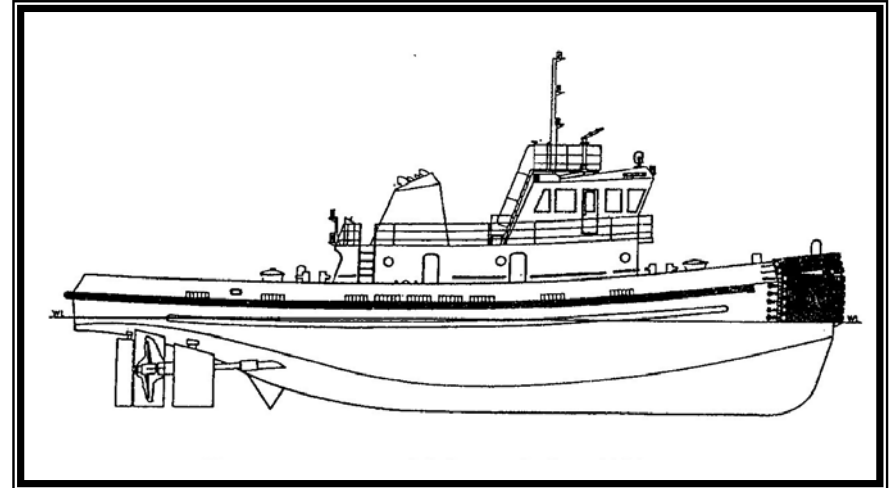


## Panama Canal Authority – Tugboat Fleet – Principal Particulars



**PAZ**

### GENERAL

|                  |                           |
|------------------|---------------------------|
| Registered Owner | : Panama Canal Authority  |
| Owner/Operator   | : Panama Canal Authority  |
| Category         | : Harbour Tug             |
| Type             | : Conventional Twin Screw |
| Built            | : 1985                    |
| Yard             | : Twin City Shipyards     |
|                  | : Hull No. 892 – U.S.A.   |
| Classification   | : ABS (Declassed)         |
| Flag             | : Panama                  |
| Port             | : Cristobal, Panama       |
| Call Sign        | : HP-9776                 |
| Bollard Pull     | : About 38.0 tons         |
| Speed            | : 12 Knots                |

### TONNAGE/DIMENSIONS

|               |                                  |
|---------------|----------------------------------|
| GRT           | : 253.00 tons                    |
| LOA           | : 99 ft 0 in                     |
| Beam          | : 30 ft 0 in                     |
| 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<br>Kort Nozzles Towmaster nozzle<br>Multiple – rudder system<br>Three rudders of the nozzles<br>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<br>: 110 ft/min @ 3.5 tons Pull |