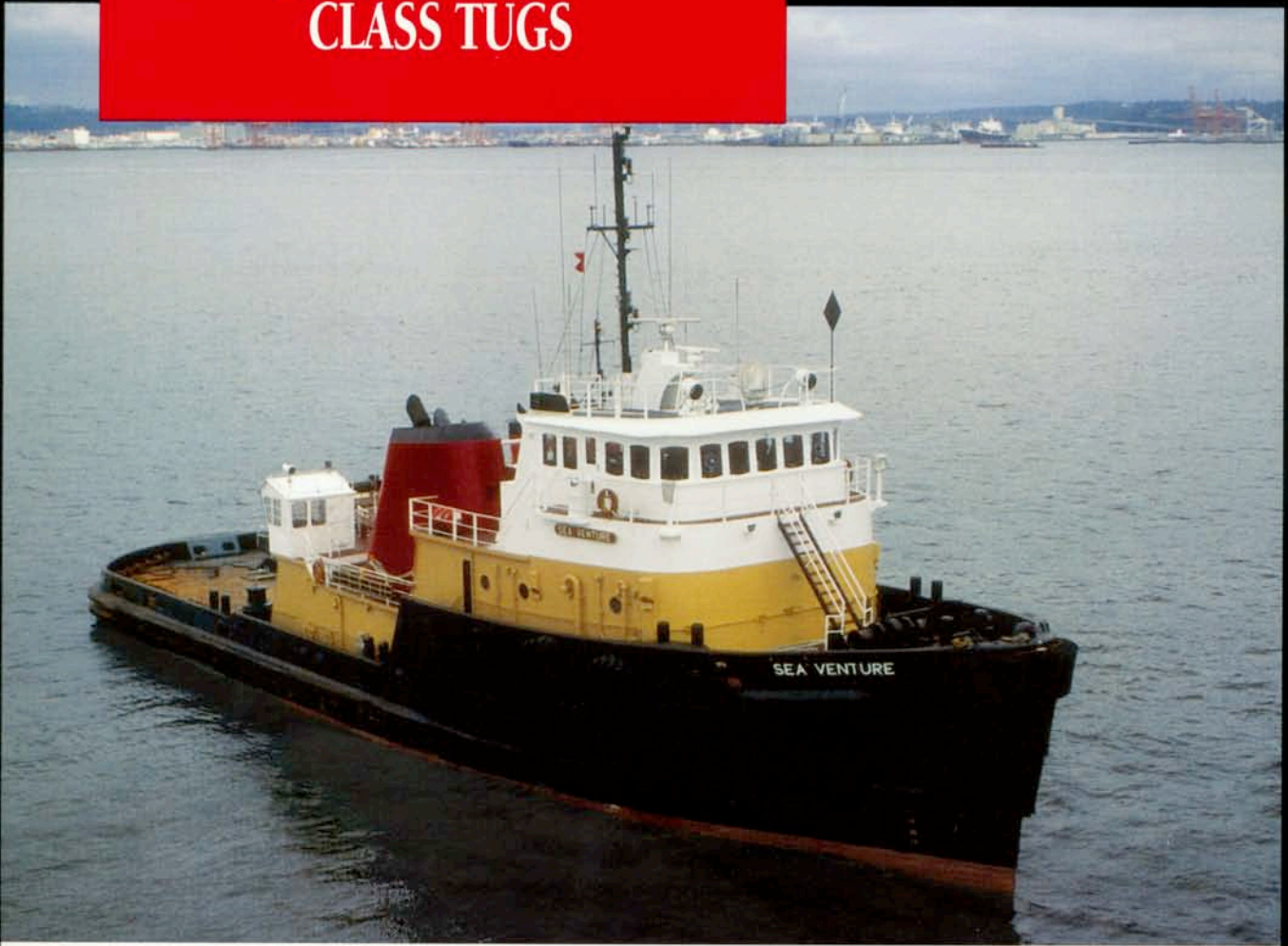


SEA VICTORY – CLASS TUGS



9,000 SERIES

The largest tugs in the Crowley fleet, the Sea Victory-Class tugs were designed and built to operate in extremely adverse weather conditions. They feature high horsepower, raised fo'c'sles, and twin screws, and offer excellent sea-keeping capability. These tugs are noted for their high bollard pull and are fitted with tow winches capable of ocean towing and anchor handling. Their versatility for a variety of types of work is further enhanced by their numerous control stations, large fuel capacity, retractable-boom hydraulic cranes, Kort nozzles, and extra quarters for additional crew and other personnel.

Crowley operates the largest and most diverse fleet of tugs in the world. The fleet offers a full range of maneuverability and versatility for work inside and outside the harbor. Crowley tugs are regularly used for linehaul tandem towing, ship assist, tanker escort, and emergency rescue towing throughout the Western Hemisphere, including Alaska; the U.S. West, Gulf, and East coasts; and the Caribbean.

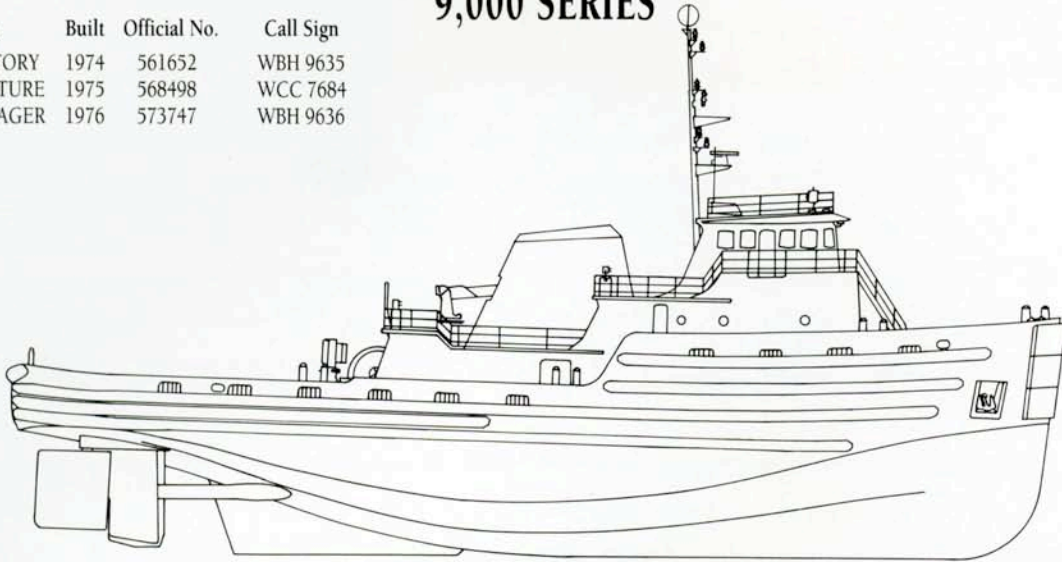
All company tugs are fully instrumented, with pilothouse-controlled engine rooms, and are equipped with the latest in navigational and communications technology.

 **CROWLEY MARINE SERVICES, INC.**

SEA VICTORY - CLASS TUGS

9,000 SERIES

Tug	Built	Official No.	Call Sign
SEA VICTORY	1974	561652	WBH 9635
SEA VENTURE	1975	568498	WCC 7684
SEA VOYAGER	1976	573747	WBH 9636



SEA VICTORY - CLASS SPECIFICATIONS:

FLAG

United States

PORT OF REGISTRY

San Francisco, CA

BUILDER

Equitable Equipment Co., Inc.
New Orleans, LA

OVERALL DIMENSIONS

Length: 149' 6"
Breadth: 40'
Depth: 22'

TONNAGE

173 tons gross; 117 tons net

CONSTRUCTION

Steel

LIGHT DRAFT

17' 6"

LOADED DRAFT

20' 3"

FUEL CAPACITY

199,727 gallons

POTABLE WATER

7,590 gallons

LUBE OIL

3,350 gallons

MAIN ENGINES

2 EMD 20-645-E5

AUXILIARY ENGINES

2 Detroit 8V-71

PROPELLERS

Twin-screw, 4-bladed
stainless steel, Kort nozzle

HORSEPOWER

7,200 maximum
continuous BHP

REDUCTION GEAR

2 Lufkin Ind., ratio 5.930:1

TOWING WINCH

Intercon DD-250, double-drum

TOWING WIRE

1 @ 3,000' of 2 1/4" wire rope
1 @ 3,600' of 2 1/2" wire rope

EMERGENCY TOW LINE

10" nylon samson RP 12,
2 @ 300' and appropriate
connecting gear
Line throwing gun

BOLLARD PULL

240,000 lbs. ahead,
130,000 lbs. astern
(bollard pull will vary
slightly by vessel)

NAVIGATION/COMMUNICATION EQUIPMENT (typical)

Radar - 2 Furuno FR 8100-D
Loran - Furuno LC90 MK II
GPS - Trimble Navtrac XL
Fathometer - Furuno FMV 605
House Phone - 3 -
VHF - SEA 156
SSB/Radio - 2-Stevens
SEA 222/SEA 330
Gyro - Sperry SR 220



CROWLEY MARINE SERVICES, INC.

Crowley's tug and barge fleet of 246 vessels includes tugs to 7,200 brake horsepower; oceangoing deck barges with single, double, or triple decks, ranging to 730 feet in length; harbor/river deck barges; house barges; and oil barges to 16,200 L/T deadweight. Crowley also owns and operates 16 passenger vessels, utilized in California, and operates 23 container and Ro/Ro ships, including owned and chartered vessels, to serve the Caribbean, Central American, and South American liner trades.