

## 108' x 35' Z-Drive Tug

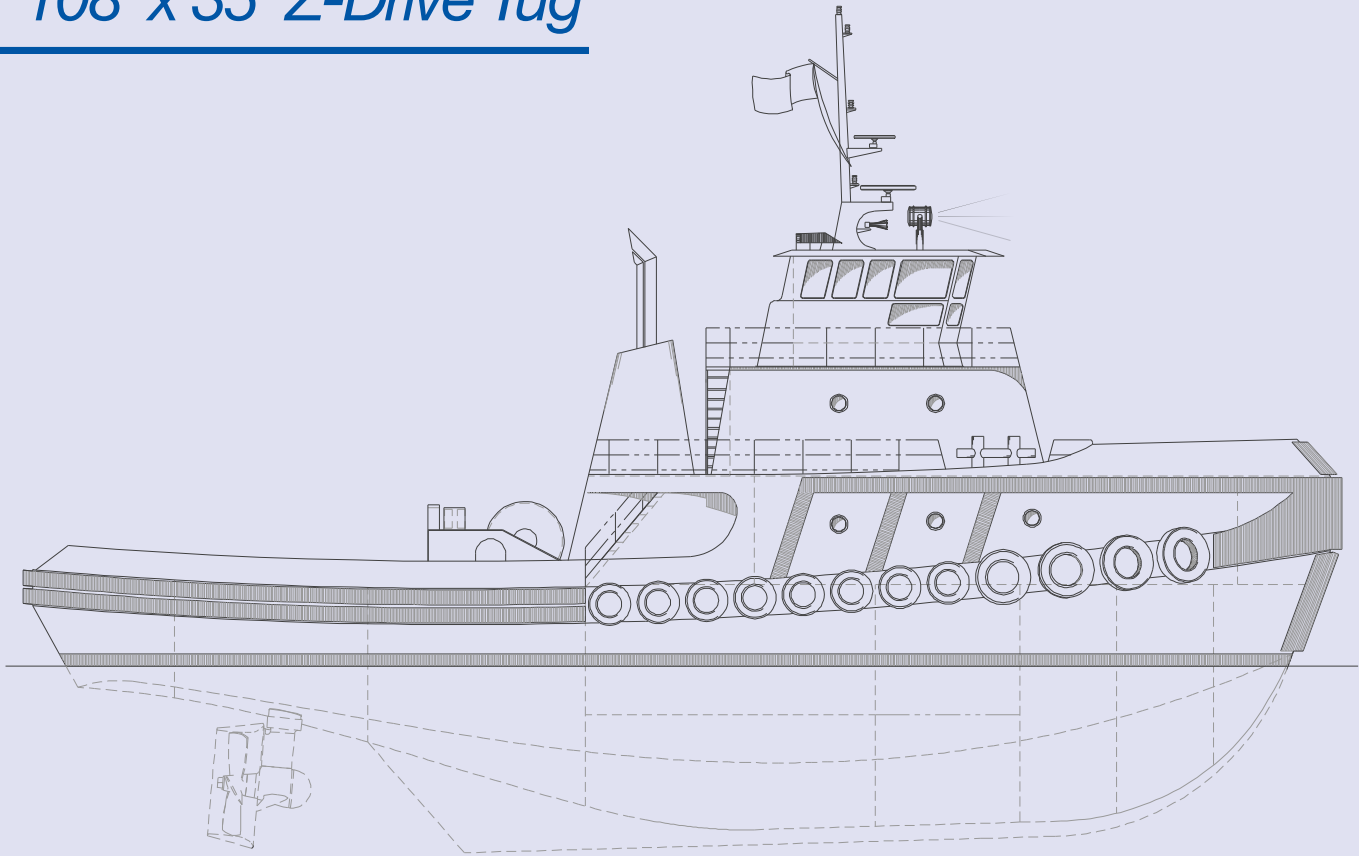


*This twin z-drive tug was developed with the vessel owner to provide a versatile tug with the maneuverability of z-drives and the size and configuration for heavy duty ocean towing. The owners desired a tug that could be maneuverable enough to dock their barges without a second assist tug being required, as well as being able to maneuver through the tight channels of the Alaskan Inner Passage with a barge in tow. Propulsion is provided by two Caterpillar 3516 B engines driving Rolls Royce (Ulstein) 1650H z-drive units.*

*A large tow winch is located aft for line-haul towing and an H-bitt and bow staple are located forward for line handling off the bow. The tug is also fitted with a combination line and anchor winch forward.*

*The raised focsle provides space for four large staterooms and a large galley and mess, as well as a workshop. Another two staterooms including the master's stateroom are located on the focsle deck. The pilot house has a center helm position with control consoles port and starboard for joystick control of the z-drives. The stack structures are removable to allow direct access into the engine room for easy main engine removal and replacement. Gross tonnage is less than 100 tons, allowing reduced manning requirements.*

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## 108' x 35' Z-Drive Tug Specifications

**Builder**  
Western Towboat

**Fuel Oil**  
140,000 gal

**Main Engines**  
2 x CAT 3512B

**Overall Dimensions**  
Length..... 108'-0" (33 m)  
Breadth ..... 38'-0" (11.6 m)  
Depth ..... 20'-0" (6 m)

**Lube Oil**  
1,200 gal

**Auxiliary Engines**  
2 x CAT 3306, 135 kW

**Construction**  
Steel

**Potable Water**  
4,900 gal

**Propulsion**  
2 x Ulstein 1650H drive units

**Light Draft**  
13'-9" amidships

**Deck Machinery**  
Fwd- Nordic Anchor/Line Winch

**Tow Winch**  
Aft- Various

**Reduction Gear**  
N/A

**Bollard Pull**  
115,000 lbs (estimated)