



## HYBRID TRACTOR TUG "RALPH"

Harbor/Escort Tug

### BACKGROUND

**Owner:** Harbor Docking & Towing  
**Builder:** Washburn & Doughty  
**Delivered:** 2019  
**Class:** ABS + A1/AMS Machinery, USCG Inspected

### IDENTIFICATION

**Official #:** 1293042  
**Call Sign:** WDK7184

### HYBRID PROPULSION

**Engines:** 2 x Tier 4 Cat 3512E, 2,550 HP  
**Electric Motors:** 2 x ABB, ~ 800 HP  
**Bollard Pull:** 84 metric tons ahead  
**Z-Drives:** 2 x Cat MTA 628 turning 110" props  
**Generators:** 2 x 565-kW Cat C18, 1 x 200-kW Cat C7.1

### PROPULSION MODES

**ECO:** Diesel Electric Only  
**Normal:** Mechanical Only  
**Hybrid:** Both Diesel Electric and Mechanical  
**FIFI:** Diesel Electric + Starboard PTO

### DIMENSIONS

**LOA:** 93' 0"  
**Breadth:** 38' 0"  
**Depth:** 17' 6"  
**Speed:** 14 knots  
**GRT:** < 200 tons

### DECK EQUIPMENT

**Winches:** Markey DEPCF-52 hawser, 75 HP  
**Cordage:** 475' of 10" Samson AmSteel-Blue  
**Cranes:** EBI Cranes TC10

### NAVIGATION GEAR

**Radar:** 2 x Furuno DRS12A X-class  
**Electronic Chart Display:** Furuno TZtouch 14" display  
**Compass:** Ritchie YB-600; Simrad HS70  
**AIS:** Furuno H570  
**Autopilot:** Simrad AP80

### COMMUNICATIONS

**Radio:** 3 x Standard Horizon GX6000 VHF

### CAPACITIES

**Fuel:** 34,120 gallons  
**Water:** 4,060 gallons  
**Lube Oil:** 1,700 gallons  
**DEF:** 1,800 gallons

### FIREFIGHTING

**Monitors:** 2 x FFS 1200 capable of 11,000 total gpm  
**Pumps:** 1 x FFS SFP 300x400CW-NCI pump  
**Onboard Fire Suppression Systems:** Ansul fixed CO2

*Powered by Innovation.*

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