

## Vessel Specifications

**General**

|                  |                                  |
|------------------|----------------------------------|
| Type             | Shallow draft tug                |
| Flag             | Kazakh                           |
| Class            | DNV +1A1 TUG, ICE-1B, SF, EO,+DK |
| Year of build    | 2005                             |
| Place of build   | President Marine PTE., Singapore |
| Port of registry | Aktau                            |
| IMO number       | 9358333                          |

**Dimensions**

|                            |         |
|----------------------------|---------|
| Length overall             | 39.59 m |
| Length extreme             | 41.04 m |
| Breadth                    | 12.2 m  |
| Depth                      | 4.0 m   |
| Summer load draft          | 2.5 m   |
| Light ship draft (forward) | 1.35 m  |
| Gross tonnage              | 537 t   |
| Net tonnage                | 162 t   |
| Deadweight                 | 494.3 t |

**Capacities**

|                      |                      |
|----------------------|----------------------|
| Fuel oil (100%)      | 406.4 m <sup>3</sup> |
| Ballast water (100%) | 69.7 m <sup>3</sup>  |
| Potable water (100%) | 61.1 m <sup>3</sup>  |
| Seawage (100%)       | 68.2 m <sup>3</sup>  |
| Deck cargo           | TBA                  |
| Deck strength        | 5.0 m <sup>2</sup>   |
| Deck area            | 100 m <sup>2</sup>   |

**Deck machinery**

|                |                                |
|----------------|--------------------------------|
| Tugger winches | 1 x 2.5 t SWL                  |
| Barge winches  | 2 x 20 t line pull, 40 t brake |
| Crane          | 4.0 t SWL @ 10 m               |

**Propulsion**

|                     |                                     |
|---------------------|-------------------------------------|
| Main engines        | 2 x CAT 3512B, 4 stroke 12 cylinder |
| Power               | 2 x 939 kw @ 100% MCR (1200 rpm)    |
| Propellers          | 2                                   |
| Rudders             | 4                                   |
| Design bollard pull | 30 t                                |
| Bow thrusters       | 90 kw                               |

**Auxiliaries**

|                         |                             |
|-------------------------|-----------------------------|
| Diesel generator sets   | 2 x Caterpillar C9 269 kVA  |
| Shaft alternator sets   | Not applicable              |
| Emergency generator set | 1 x Caterpillar 3053 75 kVA |
| Sewage treatment unit   | Hamworthy                   |

**Speed and consumption**

|                            |                   |
|----------------------------|-------------------|
| Maximum speed              | 11.5 knots        |
| Cruising speed             | 10 knots          |
| Economical speed           | 8 knots           |
| Consumption (towing barge) | 10 m <sup>3</sup> |

**Towing and anchor handling**

|                      |                            |
|----------------------|----------------------------|
| Main winch           | 20 t line pull, 50 t brake |
| AH drum capacity     | 75 m x 32 mm               |
| Towing drum capacity | 600 m x 32 mm              |
| Chain lockers        | Not applicable             |
| Stern roller         | Yes                        |

**Communication equipment**

|                              |                    |
|------------------------------|--------------------|
| Call sign                    | UOI                |
| MF transceiver               | 1 x Furuno FS-1570 |
| VHF (c/w DSC) radiotelephone | 2 x Furuno FM-500  |
| Satcom                       | Fleet 55           |
| GMDSS                        | Area 3 Compliant   |

**Navigation equipment**

|                  |                      |
|------------------|----------------------|
| Radar # 1        | Furuno FAR - 2117    |
| Radar # 2        | Furuno FAR - 2117    |
| Autopilot        | Anschutz             |
| Echo sounder     | Furuno FE-700        |
| Navtex           | Furuno NX-500        |
| Direction finder | Not applicable       |
| Gyro compass     | Anschutz Standard 22 |
| Log              | Furuno DS-80         |
| DGPS             | Not fitted           |
| GPS              | Furuno GP-90         |

**Fixed fire fighting appliances**

|                                   |     |
|-----------------------------------|-----|
| CO <sup>2</sup> Smothering System | Yes |
|-----------------------------------|-----|

**Life saving appliances**

|                 |                        |
|-----------------|------------------------|
| Liferafts       | 2 x 20 man             |
| Lifejackets     | 20                     |
| Immersion Suits | 17                     |
| Pyrotechnics    | 12 x parachute rockets |
| SOLAS           | Applicable             |
| MARPOL          | Applicable             |

**Accommodation**

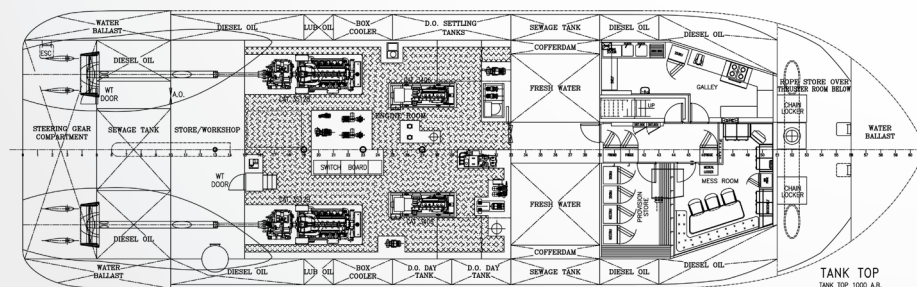
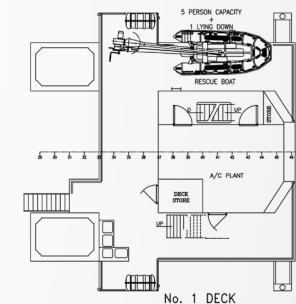
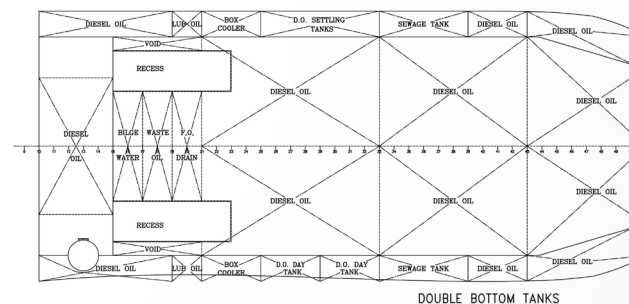
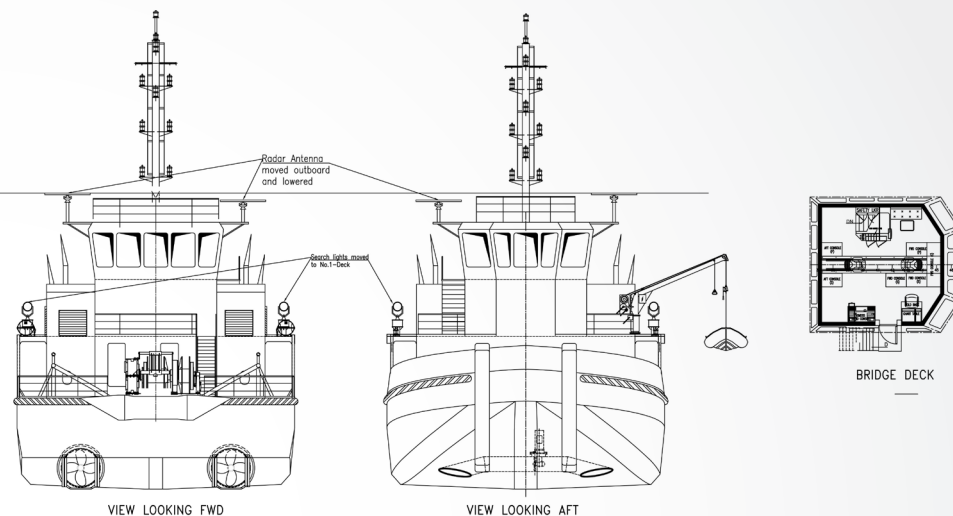
|           |                          |
|-----------|--------------------------|
| Total POB | 7 crew; 8 day passengers |
| Cabins    | 1 x 1 man                |
|           | 1 x 2 men                |
|           | 2 x 3 men                |

**Workboats / rescue equipment**

|          |                      |
|----------|----------------------|
| FRC      | Not fitted           |
| Workboat | 1 x rigid inflatable |
| Davit    | Not fitted           |



## General Arrangement



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All the details are believed to be correct but not guaranteed and owners reserve the right to amend them.