



AZIMUTH STERN DRIVE TUG 3212

"JAWAR MUTHANNA"

GENERAL

| | |
|-----------------|---|
| Yard number | 512567 |
| Delivery date | October 2019 |
| Basic functions | Push-pull, escorting, towing and fire-fighting operations |
| Classification | Bureau Veritas I ✱ HULL • MACH Escort Tug (Bollard pull = 85 t) (maximum steering force = 75 t, maximum breaking force = 90 t, maximum escort speed = 10 kn) Unrestricted Service AUT UMS INWATER SURVEY COMF-NOISE 3, COMF-VIB 3 Fire Fighting Ship 1 St. Vincent |
| Flag | St. Vincent |
| Owner | Jawar Al Khaleej Shipping L.L.C. |

DIMENSIONS

| | |
|--------------------------------|---------|
| Length overall | 32.70 m |
| Beam overall | 12.82 m |
| Depth at sides | 5.35 m |
| Draught aft | 5.90 m |
| Displacement (98% consumables) | 800 t |
| Gross tonnage | 450 t |

TANK CAPACITIES

| | |
|-----------------------|----------------------|
| Fuel oil | 148.3 m ³ |
| Fresh water | 15.4 m ³ |
| Sewage | 5.1 m ³ |
| Clean lubrication oil | 6.5 m ³ |
| Dirty lubrication oil | 7.8 m ³ |
| Bilge water | 6.5 m ³ |
| Foam | 12.3 m ³ |

PERFORMANCES

| | |
|---------------------|---------|
| Bollard pull ahead | 83.3 t |
| Bollard pull astern | 79.4 t |
| Speed ahead | 13.9 kn |
| Speed astern | 13.8 kn |

PROPULSION SYSTEM

| | |
|--------------------|----------------------------------|
| Main engines | 2x Caterpillar 3516C TA HD/D |
| Total power | 5050 bkW (6772 bhp) at 1800 rpm |
| Thrusters | 2x Rolls Royce US 255 P30/P35 FP |
| Propeller | 3000 mm |
| Forced ventilation | 80.000 m ³ /h |

AUXILIARY EQUIPMENT

| | |
|--------------------------|---|
| Generator sets | 2x Caterpillar C4.4 TA, 230/400 V, 107 kVA, 50 Hz |
| General service pumps | 2x Azcue CA-50/3A 20 m ³ /h each |
| Bilge pump | Azcue CA-32/0.5 3.6 m ³ /h at 1.1 bar |
| Fuel pump | Azcue CA40-1B 12 m ³ /h at 1.2 bar |
| Cooling system | Box cooling + anti-growth system |
| Fresh water pressure set | Azcue MO-19/10 |
| Fuel oil purifier | 2x CJC PTU3 27/81 MZ-E2PWZ, 1920 l/h each |
| Sewage treatment plant | Tecnicomar ECOmar 20 |
| Hydraulic system | Main engine driven pumps |
| Fifi set | Main engine driven pump 2400 m ³ /h (FIFI 1) |
| Fifi monitor | 2x 1200 m ³ /h, water/foam |

DECK LAY-OUT

| | |
|----------------|--|
| Anchors | 2x 495 kg Pool (High Holding Power) |
| Anchor winches | 2x Electric 10 m/min |
| Towing winch | Hydraulically driven two speed double drum, low speed pull 27 ton up to 31 m/min, high speed pull 27 ton up to 49 m/min, brake 200 ton |
| Fendering | D-fender at sides, cylindrical fender at transom corners, cylindrical bow fender with water spray |

ACCOMMODATION

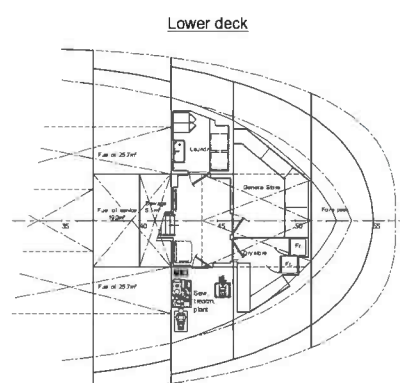
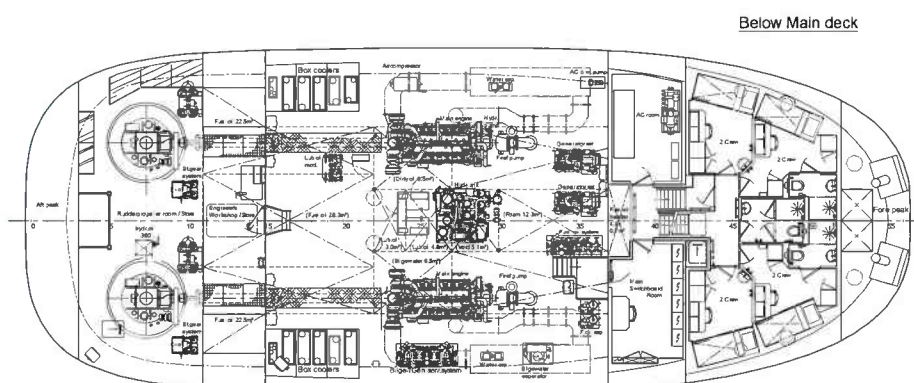
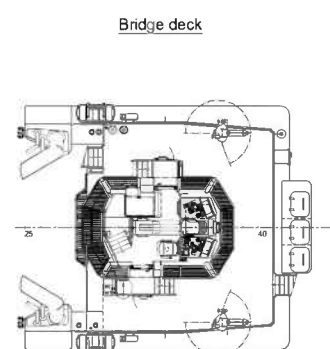
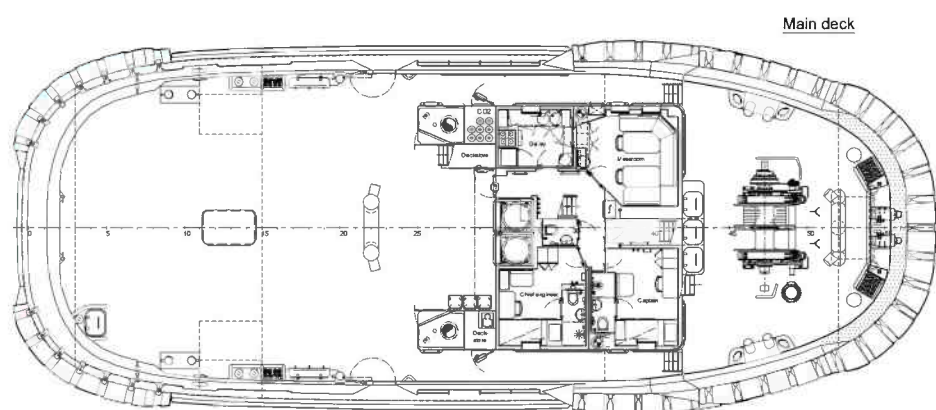
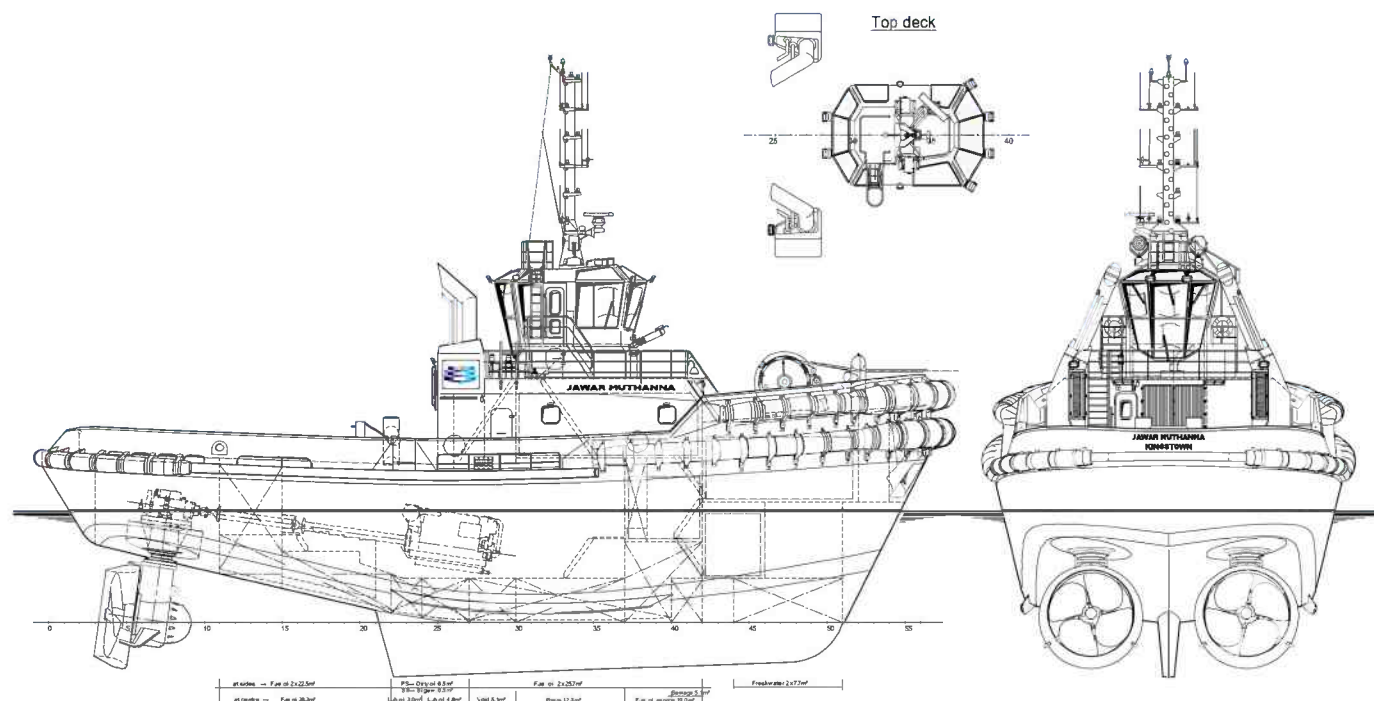
For 10 persons, insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse, floating floors and air-conditioned. With a captain's cabin, chief engineer's cabin, four double crew cabins, galley, mess/dayroom, switchboard room, dry store and sanitary facilities.

NAUTICAL AND COMMUNICATION EQUIPMENT

| | |
|-----------------------|-----------------------------|
| Searchlights | 2x Norselight 2000 W |
| Radar system | Furuno FAR-1518-BB |
| Compass | Cassens & Plath Reflecta 11 |
| Satellite compass/GPS | Simrad GN70/HS80A |
| Autopilot | Simrad AP-70 |
| Echosounder | Furuno FE-800 |
| Speed log | Furuno DS-80 |
| VHF | 2x Sailor 6222 |
| UHF | Sailor 3965 UHF |
| VHF hand-held | 2x Jotron Tron TR-20 |
| Navtex | Furuno NX-700B |
| AIS | Furuno FA-170 |
| EPIRB | Jotron Tron-60S |
| Sart | Jotron Tron Sart20 |
| Anemometer | Gill Instruments GMX500 |

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