**STAN TUG 1606**  
*“MURJAN 22”*

### GENERAL
- **Yard number**: 503194  
- **Delivery date**: September 2018  
- **Basic functions**: Towing, mooring, pushing and survey operations  
- **Classification**: Bureau Veritas  
- **Painting**: Epoxy paint system  
- **Flag**: Kingdom of Saudi Arabia  
- **Owner**: Murjan Al-Sharq Marine Contracting Co. Ltd.

### DIMENSIONS
- **Length overall**: 16.76 m  
- **Beam overall**: 5.94 m  
- **Depth at sides**: 2.54 m  
- **Draught aft**: 2.21 m  
- **Displacement**: 87.0 t  
- **Scantlings**: Hull 10 mm, sheerstrake 20 mm

### TANK CAPACITIES
- **Fuel oil**: 14.5 m³  
- **Fresh water**: 1.1 m³  
- **Sewage**: 0.7 m³  
- **Bilge water/ sludge**: 0.5 m³

### PERFORMANCES
- **Bollard pull ahead**: 16.5 t  
- **Speed**: 11.4 kn

### PROPULSION SYSTEM
- **Main engines**: 2x Caterpillar C18 TA/A  
- **Total power**: 894 kW (1216 bhp) at 1800 rpm  
- **Gearboxes**: 2x Reintjes WAF 264L 4.5:1  
- **Propellers**: 2x Kaplan II fixed pitch propellers  
- **Nozzles**: 2x 1350 mm Van de Giessen “Optima” with stainless steel inennings  
- **Rudders**: 2x Streamlined double plates  
- **Steering gear**: Powered hydraulic 2x 45°, with rudder indicator

### AUXILIARY EQUIPMENT
- **Generator set**: Caterpillar C2.2 NA, 230/400 V, 20.3 kVA, 50 Hz  
- **Alternator**: 2x main engine driven  
- **Battery sets**: 2x 24 V 200 Ah (with changeover), 1x 24 V 80 Ah  
- **Alarm system**: Engines, gearboxes, bilge alarm and fire detection engine room  
- **Bilge general service pump**: Electrically driven, Sterling SIHI VWSI 5013, 15 m³/h  
- **Fuel oil system**: Duplex filters, water separator and SOS valve  
- **Cooling system**: Closed cooling system  
- **Water system**: Electrically driven fresh water hydrophore 24 V  
- **Fuel oil system**: 230 V, 30 liter  
- **Sani-Loo**: MF Series, 900 l/h  
- **Bilge/ general service pump**: Electrically driven, Sterling SIHI VWSI 5013, 15 m³/h  
- **Fuel oil system**: Duplex filters, water separator and SOS valve  
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### DECK LAY-OUT
- **Anchors**: 2x 80 kg Pool (High Holding Power)  
- **Chain**: 100 m shortlink, 12.5 mm diameter  
- **Anchor winch**: Electrical for one anchor  
- **Towing hook**: Mampaey disc type, SWL 250 kN/ 25 ton  
- **Life raft**: On top deck  
- **Push bow**: Cylindrical rubber fender 380 mm diameter  
- **Fendering**: Continuous rubber D-fender around hull 200 x 200 mm

### ACCOMMODATION
The accommodation is completely insulated and finished with durable modern linings, acoustical ceiling in the wheelhouse and a floating floor. The air-conditioned wheelhouse is fitted with a corner settee with table and a control position. Below deck a galley, sanitary facilities and a store are provided. Windows are fitted in aluminium frames.

### NAUTICAL AND COMMUNICATION EQUIPMENT
- **Searchlight**: Pesch 250 W  
- **Horn**: Electric, Ebuki E90  
- **Radar**: Furuno PR-8062  
- **Compass**: Magnetic Kotter type  
- **Gyro compass**: Anschütz Standard 22 compact  
- **GPS**: Furuno GP-32  
- **Echosounder**: Furuno LS-6100  
- **VHF**: Sailor Compact 6248