
“Ocean Spirit”



m/v **“Ocean Spirit”**

Operated by

SARTOR  **OFFSHORE**

“Ocean Spirit”

The UT 706 – design, Platform Supply Vessel, is a medium size supply vessel with good capacities for general deck cargo, as well as different dry- and liquid products. She has good maneuverability and station keeping capacities, making her to a very efficient, reliable and flexible transport and field support vessel for our clients. The vessel has FiFi class I and full NOFO (-87) Oil Rec 1000 m3 class as well as stand-by class. She has been upgraded in 2008 as stand-by/ rescue NMD

Specifications

| | |
|------------------|---|
| Call sign | JWOO |
| Classification | DnV +1A1, supply ship, EO, SF, FiFi I, Oil Rec |
| Design | UT 706 mk II |
| Built | Molde Verft, Hjelseth (180) |
| Delivered | 1983 |
| Flag | Norwegian (NOR) |
| Port of Registry | Bergen, Norway |

Tonnage

| | |
|------------------|-------------------|
| Gross Tonnage | 2173 tones |
| Net Tonnage | 651 tones |
| Deadweight 3.5 m | 1060 tones |
| Deadweight 4.5 m | 2020 tones |
| Deadweight 5 m | 2512 tones |
| Displacement | 3576 tones |
| Light Ship | 1460 tones |

Dimensions

| | |
|-------------------|---------------------|
| Length OA | 69.08 meters |
| Length BP | 63.61 meters |
| Breadth, Molded | 17.55 meters |
| Depth, Molded | 7.30 meters |
| Draft, Summer | 5.08 meters |
| Freeboard, Summer | 2.68 meters |
| Draft, Minimum | 3.70 meters |



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Propulsion / Positioning

| | | | | | |
|--------------|-----------|-----------|---------------------------------------|-------|-----------|
| Main Engines | 2 x | 3,060 BHP | Bergen Diesel, | total | 6,120 BHP |
| Generators | 2 x | 1570 kVA | (PTO shaft generators) | | |
| Generators | 2 x | 244 kW | Cummins 440v /60 Hz | | |
| Generators | 2 x | 305 kW / | Stamford 440/ 650 Hz | | |
| Harbour | 1 x | 20 kW | 230 v/ 50 Hz | | |
| Propellers | 2 x | | Controllable pitch, 2500 mm. diameter | | |
| Rudders | 2 x | | Spade | | |
| Thrusters | 2 x | 800 BHP | Ulstein RR forward | | |
| | 2 x | 800 BHP, | Ulstein RR aft | | |
| Joy Stick | Joy Stick | | RR Poscon | | |

Speed / Consumption

| | | |
|---------------|------|----------------|
| Stand-by | 4 | ton r |
| Service speed | 10.0 | knots 10,0 ton |
| Full speed | 14.0 | knots 22.0 ton |

Cargo and Discharge Capacities

| | | |
|-----------------|------|--|
| Deck Cargo | 2200 | tones (max) Deck Timber shelter 5 tones/ m ² |
| Deck Area Total | 630 | m ² , 42.0 meters x 15,0 meters Rails 2.6 meters high |
| Fuel Oil | 914 | m ³ |
| Potable Water | 650 | m ³ |
| Brine | 250 | m ³ S.G. 1.8 |
| Mud | 344 | m ³ S.G. 1.8 |
| Base oil | 198 | m ³ S.G. 1.8 |
| Ester | 198 | m ³ |
| Oil Recovery | 1040 | m ³ |
| Dry Bulk | 378 | m ³ in 8 tanks |

| | | | | |
|---------------|---------|--------------------------|-------|------------------------------------|
| Fuel Oil | 0 – 250 | m ³ / hour at | 9 bar | Flow Meter with print-out facility |
| Potable water | 0 – 250 | m ³ / hour at | 9 bar | |
| Drill water | 2 x 170 | m ³ / hour at | 6 bar | |

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|----------|---------|--------------------------|---------------|
| Brine | 1 x 100 | m ³ / hour at | 9 bar |
| Base Oil | 1 x 160 | m ³ / hour at | 9 bar |
| Dry Bulk | 2 x 20 | m ³ / hour at | 80 psi |
| Mud | 2 x 50 | m ³ / hour at | 9 bar |



Cargo Transfer Connections

Couplings, lines *Weco 4", Weco 5" and Avery Hardoll 4" Reducers available on board*

Stand-by/ rescue – Deck Equipment

Fire Fighting

| | | |
|-------------------|-----------|-----------------------|
| Fire monitors | 2 x 1,500 | m ³ / hour |
| Vertical length | 70 | m (min.) |
| Horizontal length | 100 | m (min.) |

Deck Machinery

| | | |
|----------------|-----|---|
| Deck Cranes | 1 x | t/m Hydralift/ Sealand (SWL 1,5 tons at 10 m) |
| Deck Cranes | 1x | Heila HLM 7-2S (SWL 0,95 tons at 7,45 m) |
| Windlass | 1 x | Brattvaag anchor windlass |
| Anchors | 2 x | Anchors each of 2100 kg |
| Capstans | 2 x | 8,5 ton |
| Tugger winches | 2 x | 10 ton |

Stand-by/ rescue

| | | |
|-------------------------|-----|---|
| FRC | 1 x | MP Springer 741 with 200 BHP / water jet |
| FRC | 1 x | SeaBear 23 with 200 BHP / water jet |
| FRC launch and recovery | 2 x | Vestdavit single point davits with chock absorbent |
| Sea Rescue | 1 x | Rescue Scoop Crane operated |
| Rescue Areas | 2 x | Rescue Zones Mid ship + 2 x Drop Zones forward and aft |
| Surface Surveillance | 1 x | Surface Surveillance and reporting system connected to AIS, ARPA radar, Gyro and GPS |

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Accommodations

| | | |
|---------------------|---------------|-----------------------------------|
| Total capacity | 25 | Beds |
| Cabins | 11 x 1 | Beds |
| | 4 x 2 | Beds |
| Anti Rolling System | 2 x | Ulstein Anti rolling tanks |
| Capacity survivors | 160 | Survivors |

Navigation Equipment

| | | | |
|----------------------|--|------------|-------|
| Radars | 1 x Furuno FAR 2117 | ARPA / AIS | 3 cm |
| | 1 x Furuno FAR 2835S | ARPA | 10 cm |
| Satellite Navigators | 1 x Furuno GP-90 | | |
| | 1 x Furuno GP-150 | | |
| AIS | 1 x JRC JHS-182 | | |
| Navtex Receiver | 1 x Furuno NX-700 | | |
| Echo Sounder | 1 x Simrad ED-161 | | |
| Gyrocompass | 1 x Simrad GC-80 | | |
| Satellite Compass | 1 x Furuno SC-502 | | |
| Autopilot | 1 x Robertson AP9 Mk3 | | |
| Direction Finder | 1 x SkipperTaiyo ADDF TD-L 1520 | | |
| Doppler Log | 1 x JRC JLN-203 | | |
| ECDIS | 1 x TELchart V3 | | |

Communication Equipment

| | |
|------------------|---|
| Radio Station | GMDSS - area A3. |
| | 1 x Sailor Compact GMDSS Station MF/HF DSC |
| Inmarsat C | 1 x Furuno FELCOM 15 |
| Inmarsat M | 1 x Nera Satellite Phone |
| Internet/Phones | 1 x Sea Tel TAC-92 |
| TV | 1 x Sea Tel DAC-220 |
| Gsm | 1 x Nokia |
| | 1 x HTC |
| VHF | 1 x Sailor VHF-DSC RM 2042 |
| | 1 x Sailor VHF-DSC RT5022 |
| | 2 x Sailor VHF RT2048 |
| VHF Portable | 2 x Icom BC-119N |
| | 2 x Motorola GP-340 |
| | 3 x Jotron Tron VHF (GMDSS) |
| UHF | 1 x Motorola GM-350 |
| | 1 x Icom HM-152 |
| UHF Portable | 1 x Motorola GP-340 |
| Helicopter Radio | 1 x Jotron Tranciver TR-6102 |
| SARTs | 2 x Jotron X-96960 |
| EPIRBs | 1 x Tron 45SX Manual Epirb |
| | 1 x Jotron GMDSS Freefloat Epirb |

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1m/Bbls 6,2898
80,00 % 90,00 %

TANKPLAN FOR PSV " OCEAN SPIRIT" JWOO IMO 8111001

| Tanknumber | Containing | Capacity 100 % | Capacity 90 % | Capacity recom | Bbls | Remarks | Fillgrade |
|-------------------|-------------|----------------|---------------|----------------|-------------|-----------------|-----------|
| Deeptank port | Mud | 172,1 | 154,9 | 154,9 | 974,2 | Total/Bbls | 90 % |
| Deeptank stb | Mud | 172,1 | 154,9 | 154,9 | 974,2 | 1948,5 | 90 % |
| Wing # 4 port | Ester/Ether | 59,5 | 53,6 | 53,6 | 336,8 | Total/Bbls | 90 % |
| Wing # 4 stb | Baseoil | 59,5 | 53,6 | 53,6 | 336,8 | | 90 % |
| Wing # 5 port | Baseoil | 138,4 | 124,6 | 124,6 | 783,5 | Total/Bbls | 90 % |
| Wing # 5 stb | Ester/Ether | 138,4 | 124,6 | 124,6 | 783,5 | 2240,6 | 90 % |
| TWT # 3 port | Brine/DW | 42,1 | 37,9 | BRINE 37,9 M3 | DW42,1 M3 | BRINE 1113 Bbls | 90 % |
| TWT # 3 stb | Brine/DW | 42,1 | 37,9 | BRINE 37,9 M3 | DW42,1 M3 | DW 1239 Bbls | 90 % |
| TWT # 3 center | Brine/DW | 112,3 | 101,1 | BRINE 101,1 M3 | DW 112,3 M3 | | 90 % |
| Afterpeak port | Freshwater | 96,8 | 87,1 | 96,8 | 608,9 | Total/Bbls | 100 % |
| Afterpeak stb | Freshwater | 96,8 | 87,1 | 96,8 | 608,9 | | 100 % |
| DB # 1 port | Freshwater | 75,6 | 68,0 | 75,6 | 475,5 | Total/Bbls | 100 % |
| DB # 1 stb | Freshwater | 75,6 | 68,0 | 75,6 | 475,5 | | 100 % |
| Wingtank # 1 port | Freshwater | 127,7 | 114,9 | 127,7 | 803,2 | Total/Bbls | 100 % |
| Wingtank # 1 stb | Freshwater | 127,7 | 114,9 | 127,7 | 803,2 | | 100 % |
| Forepeak | Freshwater | 55,3 | 49,8 | 55,3 | 347,8 | 4123,0 | 100 % |
| DB # 2 port | Diesel | 73,5 | 66,2 | 58,8 | 58,8 | | 80 % |

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|-----------------|-------------------|----------------------|---------------------|-----------------------|----------------|--------------------|-------|
| DB # 2 stb | Diesel | 73,5 | 66,2 | 58,8 | 58,8 | | 80 % |
| DB # 2 center | Diesel | 73,6 | 66,2 | 58,9 | 58,9 | | 80 % |
| DB # 3 port | Diesel | 64,6 | 58,1 | 51,7 | 51,7 | | 80 % |
| DB # 3 stb | Diesel | 64,6 | 58,1 | 51,7 | 51,7 | | 80 % |
| DB # 3 center | Diesel | 112,7 | 101,4 | 90,2 | 90,2 | | 80 % |
| DB # 4 center | Diesel | 105,1 | 94,6 | 84,1 | 84,1 | | 80 % |
| Wingt # 3 port | Diesel | 95,2 | 85,7 | 85,7 | 85,7 | Total/Bbls | 90 % |
| Wingt # 3 stb | Diesel | 95,2 | 85,7 | 85,7 | 85,7 | 625,4 | 90 % |
| Bulktank 1 | Barite | 47,9 | 43,1 | 80 TONS | SG = 2,16 | PORT SIDE | |
| Bulktank 2 | Barite | 47,9 | 43,1 | 80 TONS | SG = 2,16 | LOAD/DISCH | |
| Bulktank 3 | Barite | 47,9 | 43,1 | 80 TONS | SG = 2,16 | | |
| Bulktank 4 | Cement | 47,9 | 43,1 | 60 TONS | SG = 1,53 | | |
| Bulktank 5 | Cement | 47,9 | 43,1 | 60 TONS | SG = 1,53 | | |
| Bulktank 6 | Cement | 47,9 | 43,1 | 60 TONS | SG = 1,53 | | |
| Bulktank 7 | Bentonite | 47,9 | 43,1 | 40 TONS | SG = 0,95 | | |
| Bulktank 8 | Bentonite | 47,9 | 43,1 | 40 TONS | SG = 0,95 | | |
| Stabtank # 1 | Drillwater | 147,4 | 132,7 | 147,4 | STABLEVEL = | 97,3 | 66 % |
| Stabtank # 2 | Drillwater | 160,6 | 144,5 | 160,6 | STABLEVEL = | 106,0 | 66 % |
| TWT # 1 port | Drillwater | 31,9 | 28,7 | 31,9 | 200,6 | Bbls | 100 % |
| TWT # 1 stb | Drillwater | 31,9 | 28,7 | 31,9 | 200,6 | Bbls | 100 % |
| TWT # 2 port | Brine/DW | 29,5 | 26,6 | BRINE 26,6 M3 | DW 29,5 M3 | BRINE 167 Bbls | 90 % |
| TWT # 2 stb | Brine/DW | 29,5 | 26,6 | BRINE 26,6 M3 | DW 29,5 M3 | DW 186 Bbls | 90 % |
| Bulktype | Containing | Capacity 90 % | Bbls at 90 % | Capacity recom | | Bbls / 100% | |
| Mud | 344,2 | 309,8 | 1948,0 | 309,8 | | 1948,6 | |
| Ester/Eter | 197,9 | 178,1 | 1120,2 | 178,1 | | 1120,3 | |
| Baseoil | 197,9/395,8 | 178,1/356,2 | 1120/2240. | 178,1/356,2 | | 1120/2240. | |
| Freshwater | 655,5 | 590,0 | 3710,0 | 655,5 | | 4122,0 | |
| Brine | 255,5 | 230,0 | 1446,0 | 230,0 | | 1446,0 | |
| Drillwater | 371,8/627,3 | 334,6/564,6 | 2104/3550. | 371,8/627,3 | | 2338/3945 | |
| Diesel | 758,0 | 682,2 | 4290,0 | 625,6 | | 3935,0 | |
| Barite | 143,7/383,2 | 129,3/344,9 | DRYBULK | 255/680 Tons | SG= | 2,16 | |
| Cement | 143,7/383,2 | 129,3/344,9 | DRYBULK | 195/520 Tons | SG= | 1,53 | |
| Bentonite | 95,8/383,2 | 86,2/344,9 | DRYBULK | 90/360 Tons | SG= | 0,95 | |

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