



SYGNA TIDE as shown, SUN TIDE similar

VARD 1 07 PSV

Vessel Characteristics

| | | |
|--------------------|--|----------------------|
| Length, Overall: | 310.7 ft | 94.7 m |
| Beam: | 68.9 ft | 21 m |
| Depth: | 27.9 ft | 8.5 m |
| Maximum Draft: | 23.1 ft | 7 m |
| Light Draft: | 11.8 ft | 3.6 m |
| Minimum Height: | 92.9 ft | 28.3 m |
| Freeboard: | 4.8 ft | 1.5 m |
| Displacement: | 9,090 lt | 9,240 mt |
| Deadweight: | 5,540 lt | 5,630 mt |
| Clear Deck Space: | 223 x 57 ft | 68 x 18 m |
| Clear Deck Area: | 12,300 ft ² | 1,140 m ² |
| Deck Strength AFT: | 2,050 lb/ft ² | 10 t/m ² |
| Class Notations: | DNV: +1A1, Offshore service vessel(Supply), Battery(Power), Clean(Design), COMF(C-3, V-2), DK(+), DYNPOS(AUTR), E0, ESV(DP[HIL-IS], PMS[HIL-IS]), HL(2.8), LFL(*), NAUT(OSV(A)), Recyclable, SFz | |

Capacities

| | | |
|----------------------------------|------------------------|----------------------|
| Deck Cargo: | 3,610 lt | 3,670 t |
| Fuel Oil: | 367,000 gal | 1,390 m ³ |
| Potable Water: | 38,500 gal | 150 m ³ |
| Fresh Water: | 215,000 gal | 810 m ³ |
| Drill/Ballast Water: | 704,000 gal | 2,670 m ³ |
| Bulk Tanks (6 tanks): | 10,600 ft ³ | 300 m ³ |
| Liquid Mud (2.8 SG*): | 6,310 bbl | 1,000 m ³ |
| *Max Structural Specific Gravity | | |
| Methanol: | 950 bbl | 150 m ³ |
| Base Oil: | 960 bbl | 150 m ³ |
| Brine: | 2,530 bbl | 400 m ³ |
| Fire Fighting Foam: | 900 gal | 3.4 m ³ |

TIDEWATER

Find out more

tdw.com

Pg.2 Further Specifications

Pg.4 Capacity Table

Pg.3 General Arrangement

Pg.5 DP Capability Plot

Machinery

| | | | |
|-------------------------------|--|---------|-------|
| Diesel Electric Hybrid Vessel | 500 kWh Battery | | |
| Propulsive/Total HP: | 5,900 / 10,400 | | |
| Z-Drives: | Yes | | |
| Propellers (2): | AZP120, 2200KW CPP | | |
| Primary Generators (3): | 2,460 kw | 690 v | 60 hz |
| Driven by: | RRM C25:33L8ACD | | |
| Emergency Generators (1): | 180 kw | 690 v | 60 hz |
| Driven by: | SCANIA DI 12 64M | | |
| Bow Thruster (3): | 2x RR TT2400 DPN TT FP, 1x TCNS 73/15 SWING DOWN | | |
| Driven by: | 2x 1200KW, 1x 880KW ELECTRIC MOTORS | | |
| Total Thrust: | 55 st | 49.9 mt | |

Deck Equipment

| | |
|-----------------|-------------------------------|
| Anchors (2): | 4050 KG SPEK |
| Anchor Chain: | 260 m of 50 mm chain per side |
| Windlass: | 2x 15 MT RR MW170F/50 K3 |
| Crane (1): | 4 t @ 12 m |
| Aux. Crane (1): | 2 t @ 10 m |
| Tugger (2): | 10 t RRM |

Accommodations

| | |
|---------------------|--------------------|
| No. of Berths: | 28 |
| Cabins: | 14x1-man & 7x2-man |
| Certified to Carry: | 28 |
| Galley seating: | 16 |
| Hospital: | Yes |

Registration

| | |
|------------------|------------------------------|
| Flag: NORWAY | Home Port: SKUDENESHAVN |
| Hull Number: 815 | IMO N ^o : 9665786 |
| Year Built: 2014 | Call Sign: LGPT |
| Builder: | Vard Langsten |
| Tonnage (ITC): | 4797 GT 1911 NT |

Performance*

| Fuel Consumption Vs Speed | | |
|---------------------------|----------------------------------|------------------|
| Maximum: | 19.2 m³/day (210 gph) @ 15 knots | |
| Cruising: | 12.2 m³/day (130 gph) @ 12 knots | |
| Economical: | 10.1 m³/day (110 gph) @ 11 knots | |
| Standby: | 2.2 m³/day (24.2 gph) @ 0 knots | |
| Range @ 12 Knots: | 32,700 nm | |
| Transfer Rates | | |
| Fuel Oil: | 880 gpm @ 300 ft | 200 m³/h @ 92 m |
| Fresh Water: | 880 gpm @ 300 ft | 200 m³/h @ 92 m |
| Drill/Ballast Water: | 880 gpm @ 300 ft | 200 m³/h @ 92 m |
| Bulk: | 29.5 cfm @ 190 ft | 50.1 m³/h @ 57 m |
| Liquid Mud: | 330 gpm @ 800 ft | 75 m³/h @ 240 m |
| Base Oil: | 330 gpm @ 300 ft | 75 m³/h @ 92 m |
| Brine: | 440 gpm @ 800 ft | 100 m³/h @ 240 m |
| Methanol: | 330 gpm @ 300 ft | 75 m³/h @ 92 m |

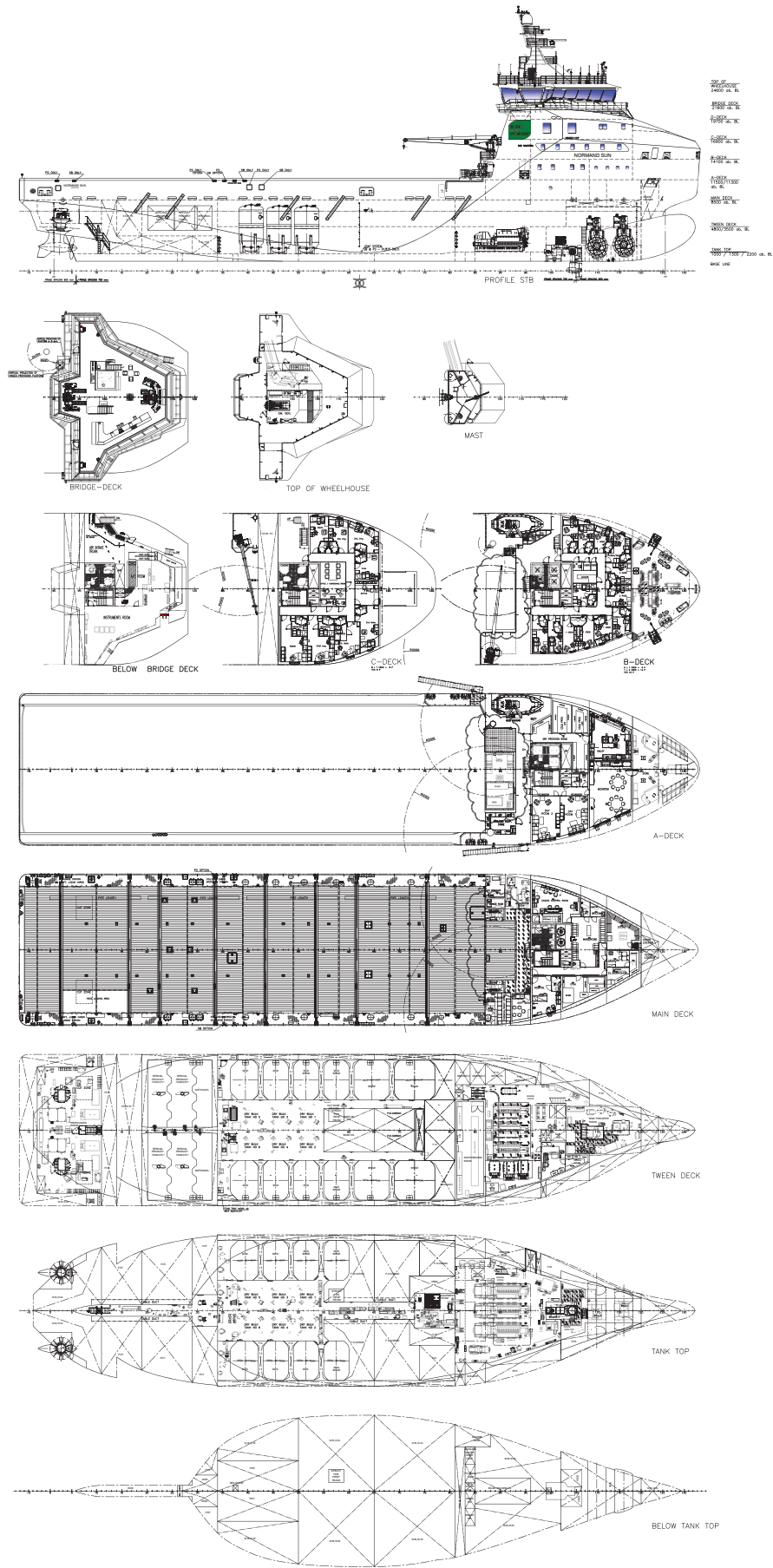
Nav/Comms Equipment

| | |
|------------------------|------------------|
| Radar(s): | 2 |
| Depth Sounder: | 1 |
| Gyro Compass: | 3 |
| Wind Speed Indicators: | 2 |
| Doppler Log: | 1 |
| Radio: | 3 x VHF; 1 x SSB |
| Sat Com: | 1X INMARSAT-C |

Special Equipment

| | |
|--|---|
| Dynamic Positioning: | DP-2 |
| Ref. Systems: | 3 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based |
| Mud Circulation System/ Mud Mixers: | Yes/Yes |
| Tank Cleaning: | Yes |
| Rescue Boat: | 10-Man FRC |
| Gas Detection: | Yes |
| Reefer Sockets: | 30x 230V 16A |
| Misc: | Special Prod. Capacity - 401.4 m³; MSD; Eye Wash Station; HPR Trunk |

*Approximate values assuming Ideal Conditions



SUN TIDE

Capacity Table



| Tank | Contents | Volume m ³ | Base Oil | Fuel Oil | Dry Bulk | DW/WB | Potable Water | Fresh Water | Brine | Liquid Mud | Methanol | Lube Oil | Foam | Oil Disp. |
|---|-----------|--------------------------|-------------|-------------|-------------|---------|------------------|----------------|-------|---------------|----------|-------------|------|--------------|
| 01 WB/DW TK | DW/WB | 155.9 | | | | 155.9 | | | | | | | | |
| 09 WB/DW TK | DW/WB | 62.0 | | | | 62.0 | | | | | | | | |
| 10 WB/DW TK | DW/WB | 44.9 | | | | 44.9 | | | | | | | | |
| 11 WB/DW TK | DW/WB | 56.5 | | | | 56.5 | | | | | | | | |
| 12 WB/DW TK | DW/WB | 56.5 | | | | 56.5 | | | | | | | | |
| 13 WB/DW TK | DW/WB | 51.7 | | | | 51.7 | | | | | | | | |
| 14 WB/DW TK | DW/WB | 51.7 | | | | 51.7 | | | | | | | | |
| 15 WB/DW TK | DW/WB | 39.5 | | | | 39.5 | | | | | | | | |
| 16 WB/DW TK | DW/WB | 47.7 | | | | 47.7 | | | | | | | | |
| 61 WB/DW TK | DW/WB | 61.6 | | | | 61.6 | | | | | | | | |
| 62 WB/DW TK | DW/WB | 70.0 | | | | 70.0 | | | | | | | | |
| 63 WB/DW TK | DW/WB | 131.2 | | | | 131.2 | | | | | | | | |
| 64 WB/DW TK | DW/WB | 131.2 | | | | 131.2 | | | | | | | | |
| 65 WB/DW TK | DW/WB | 133.0 | | | | 133.0 | | | | | | | | |
| 66 WB/DW TK | DW/WB | 136.9 | | | | 136.9 | | | | | | | | |
| 67 WB/DW TK | DW/WB | 85.5 | | | | 85.5 | | | | | | | | |
| 68 WB/DW TK | DW/WB | 85.5 | | | | 85.5 | | | | | | | | |
| 88 STAB TK 1 | DW/WB | 341.6 | | | | 341.6 | | | | | | | | |
| 89 STAB TK 2 | DW/WB | 219.0 | | | | 219.0 | | | | | | | | |
| 100 WB/DW TK | DW/WB | 525.0 | | | | 525.0 | | | | | | | | |
| 102 WB/DW TK | DW/WB | 109.7 | | | | 109.7 | | | | | | | | |
| 103 WB/DW TK | DW/WB | 119.5 | | | | 119.5 | | | | | | | | |
| 117 WB/DW TK | DW/WB | 35.2 | | | | 35.2 | | | | | | | | |
| 05 FW TK | Ship's FW | 109.1 | | | | | 109.1 | | | | | | | |
| 06 FW TK | Ship's FW | 36.7 | | | | | 36.7 | | | | | | | |
| 04 POT TK | FW | 92.8 | | | | | | 92.8 | | | | | | |
| 07 POT TK | FW | 44.2 | | | | | | 44.2 | | | | | | |
| 08 POT TK | FW | 108.6 | | | | | | 108.6 | | | | | | |
| 17 POT TK | FW | 52.9 | | | | | | 52.9 | | | | | | |
| 18 POT TK | FW | 52.9 | | | | | | 52.9 | | | | | | |
| 19 POT TK | FW | 73.6 | | | | | | 73.6 | | | | | | |
| 20 POT TK | FW | 73.6 | | | | | | 73.6 | | | | | | |
| 21 POT TK | FW | 110.7 | | | | | | 110.7 | | | | | | |
| 22 POT TK | FW | 110.7 | | | | | | 110.7 | | | | | | |
| 106 POT TK | FW | 46.2 | | | | | | 46.2 | | | | | | |
| 107 POT TK | FW | 46.8 | | | | | | 46.8 | | | | | | |
| 23 CFO TK | FO | 230.4 | | 230.4 | | | | | | | | | | |
| 24 CFO TK | FO | 230.4 | | 230.4 | | | | | | | | | | |
| 25 CFO TK | FO | 141.7 | | 141.7 | | | | | | | | | | |
| 26 CFO TK | FO | 140.5 | | 140.5 | | | | | | | | | | |
| 31 CFO TK | FO | 134.5 | | 134.5 | | | | | | | | | | |
| 30 FO TK | FO | 63.5 | | 63.5 | | | | | | | | | | |
| 32 FO TK | FO | 134.5 | | 134.5 | | | | | | | | | | |
| 33 FO TK | FO | 18.0 | | 18.0 | | | | | | | | | | |
| 34 FO TK | FO | 18.0 | | 18.0 | | | | | | | | | | |
| 35 FO TK | FO | 17.8 | | 17.8 | | | | | | | | | | |
| 36 FO TK | FO | 17.8 | | 17.8 | | | | | | | | | | |
| 37 FO TK | FO | 28.6 | | 28.6 | | | | | | | | | | |
| 38 FO TK | FO | 28.6 | | 28.6 | | | | | | | | | | |
| 39 FO TK | FO | 32.1 | | 32.1 | | | | | | | | | | |
| 40 FO TK | FO | 32.1 | | 32.1 | | | | | | | | | | |
| 41 FO TK | FO | 31.3 | | 31.3 | | | | | | | | | | |
| 42 FO TK | FO | 31.3 | | 31.3 | | | | | | | | | | |
| 82 FO SERVICE 1 | FO | 23.2 | | 23.2 | | | | | | | | | | |
| 83 FO SETTLE | FO | 25.4 | | 25.4 | | | | | | | | | | |
| 84 FO SERVICE 2 | FO | 22.9 | | 22.9 | | | | | | | | | | |
| 85 FO SERVICE 3 | FO | 24.9 | | 24.9 | | | | | | | | | | |
| 91 FO DRAIN | FO | 4.2 | | 4.2 | | | | | | | | | | |
| 92 DRAIN OIL | FO | 4.3 | | 4.3 | | | | | | | | | | |
| 104 FO | FO | 58.0 | | 58.0 | | | | | | | | | | |
| 119 FO EMERG | FO | 2.5 | | 2.5 | | | | | | | | | | |
| 27 BO TK | BO | 76.1 | 76.1 | | | | | | | | | | | |
| 28 BO TK | BO | 76.1 | 76.1 | | | | | | | | | | | |
| 51 BRI TK | BRI | 93.9 | | | | | | | 93.9 | | | | | |
| 52 BRI TK | BRI | 93.9 | | | | | | | 93.9 | | | | | |
| 53 BRI TK | BRI | 107.4 | | | | | | | 107.4 | | | | | |
| 54 BRI TK | BRI | 107.4 | | | | | | | 107.4 | | | | | |
| 71 METH TK | METH | 75.6 | | | | | | | | | 75.6 | | | |
| 72 METH TK | METH | 75.6 | | | | | | | | | 75.6 | | | |
| 43 MUD TK | LM | 125.0 | | | | | | | | 125.0 | | | | |
| 44 MUD TK | LM | 125.0 | | | | | | | | 125.0 | | | | |
| 45 MUD TK | LM | 122.0 | | | | | | | | 122.0 | | | | |
| 46 MUD TK | LM | 122.0 | | | | | | | | 122.0 | | | | |
| 47 MUD TK | LM | 126.7 | | | | | | | | 126.7 | | | | |
| 48 MUD TK | LM | 126.7 | | | | | | | | 126.7 | | | | |
| 49 MUD TK | LM | 127.9 | | | | | | | | 127.9 | | | | |
| 50 MUD TK | LM | 127.9 | | | | | | | | 127.9 | | | | |
| 55 DRY BULK | DRY BULK | 50.1 | | | 50.1 | | | | | | | | | |
| 56 DRY BULK | DRY BULK | 50.1 | | | 50.1 | | | | | | | | | |
| 57 DRY BULK | DRY BULK | 50.1 | | | 50.1 | | | | | | | | | |
| 58 DRY BULK | DRY BULK | 50.1 | | | 50.1 | | | | | | | | | |
| 59 DRY BULK | DRY BULK | 50.1 | | | 50.1 | | | | | | | | | |
| 60 DRY BULK | DRY BULK | 50.1 | | | 50.1 | | | | | | | | | |
| 77 LO MAIN ENG | LO | 11.4 | | | | | | | | | | 11.4 | | |
| 80 LO HARBOR ENG | LO | 4.0 | | | | | | | | | | 4.0 | | |
| 125 FOAM TK | FOAM | 3.4 | | | | | | | | | | | 3.4 | |
| Total Volume [m ³] | | | 152.2 | 1,496.5 | 300.6 | 2,665.8 | 145.8 | 813.0 | 402.6 | 1,003.2 | 151.2 | 15.4 | 3.4 | 0.0 |
| Spec Sheet Total Volume [m ³] | | | 152.2 | 1,389.1 | 300.6 | 2,665.8 | 145.8 | 813.0 | 402.6 | 1,003.2 | 151.2 | 15.4 | 3.4 | 0.0 |

*Capacities shown are for lead vessel. Actual capacities may vary slightly.

*Capacities shown in RED are excluded from the total volume.

*Capacities shown in BLUE are included in another Tank's Capacity.

*Capacities shown in GREEN are counted for multiple Tank Capacities.

SUN TIDE

DP Capability Plot

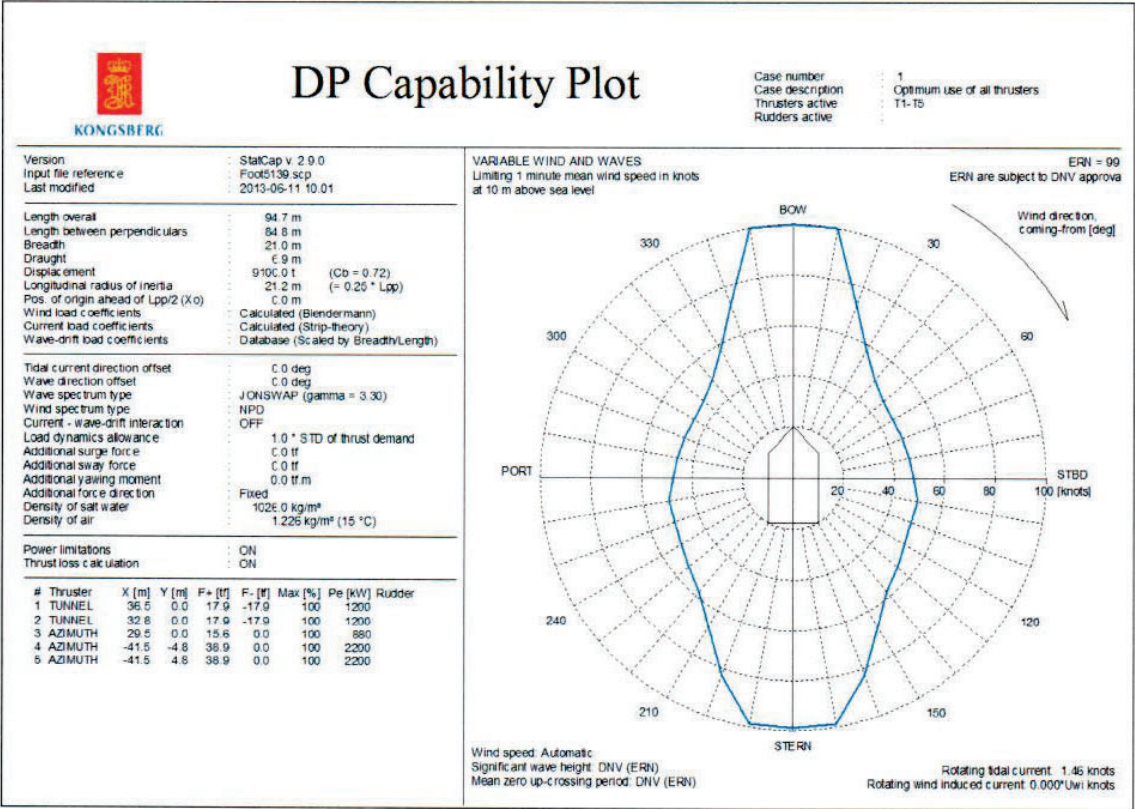


Figure 10: DP capability envelope for case 1.