

## VS 485 CD - SONGA COMMANDER

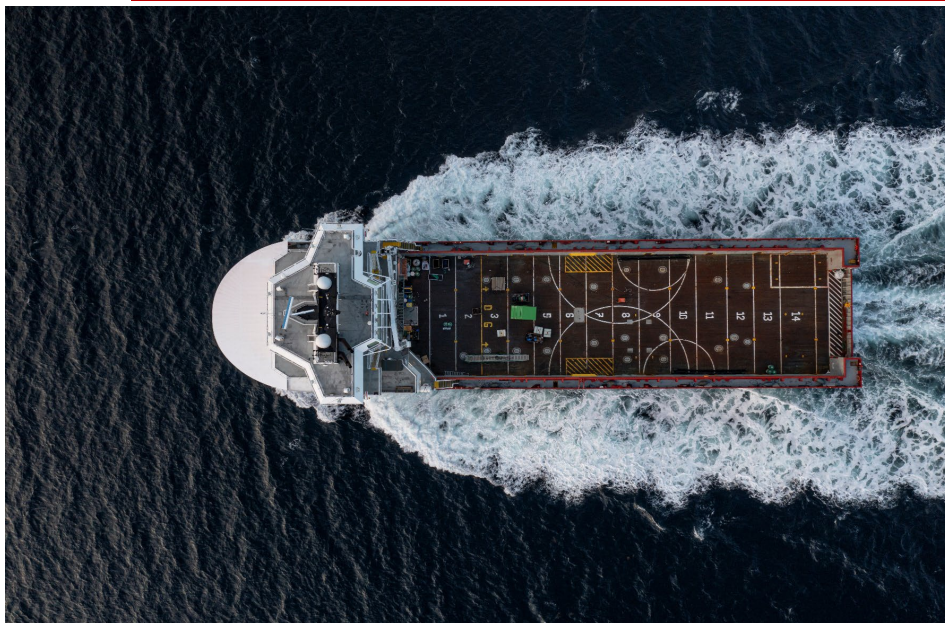


The environmentally friendly vessel Songa Commander is a high class Platform Supply Vessels with high ORO capacity. The vessel have large under deck capacity for bulk and 1005m<sup>2</sup> free deck area with deck strength 10t/m<sup>2</sup>. The vessel is diesel electric powered with frequency controlled propellers to enable environmentally friendly operations and power take out regulated as needed. The vessels is certified with DNV according to Clean Design and with high comfort class (C-3, V-3).

| Top Features                                               | Key Specifications                     |
|------------------------------------------------------------|----------------------------------------|
| Large liquid bulk cargo capacities                         | Deadweight - 4.900 t                   |
| Large dry bulk cargo capacities                            | Large Deck Load Capacity               |
| Mud tanks with segregations                                | Free Deck Area - 1005m <sup>2</sup>    |
| Large ORO capacity - NOFO 2005                             | Brake Horsepower - 10.341 BHP/ 7604 kW |
| Hydraulic driven agitators in each mud tank                | ERN: 99, 99, 99                        |
| Tank washing in Mud, Brine, Special Product and Slop tanks |                                        |
| Quiet & comfortable accomodation                           |                                        |



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| General Information |                     |
|---------------------|---------------------|
| Vessel name         | Songa Commander     |
| Built               | Hellesøy Yard, 2010 |
| Flag                | NIS                 |
| Call Sign           | LAVL8               |
| IMO No.             | 9470193             |

### Class Notation - DNV

1A1, Ice C, Dynpos (AUTR), Clean (Design), COMF(C-3, V-3), EO, LFL, SF, Oil Rec, DK(+), HL(P), Compliance to NAUT(OSV(A))

| Dimensions     |                     |
|----------------|---------------------|
| Length (LOA)   | 85 m                |
| Beam           | 20 m                |
| Summer Draft   | 7,1 m               |
| Free Deck Area | 1005 m <sup>2</sup> |
| Deadweight     | 4.900 t             |
| GT (ITC 69)    | 4.366 t             |

| Deck Capacities           |                     |
|---------------------------|---------------------|
| Deck Load Capacity        | 2.800 t             |
| Deck Strength             | 10 t/m <sup>2</sup> |
| Gross Deck area           | 1005m <sup>2</sup>  |
| Net Deck Area             | 1005m <sup>2</sup>  |
| Length x Width, net area: | 60,6 m x 16,8 m     |

| Engine & Propulsion     |                                                         |
|-------------------------|---------------------------------------------------------|
| Main Generator          | 4 x 1.901kW Caterpillar 3516                            |
| Main Propellers         | 2 x 2.300kW Steerprop FC                                |
| Bow Trusters            | 2 x 1.000kW Brunvoll                                    |
| Bow Thruster Azimuth    | 1 x 800kW Brunvoll Retractable                          |
| Dynamic Position System |                                                         |
| Type                    | Kongsberg DPH K-pos                                     |
| Reference system        | 1xFanbeam Mk4.2, 2xDPS 200cm, 1xRadaScan                |
| Motion Reference        | 3 x Anschütz 22, 1 x MRU2, 1 X MRU5 2 x Windsensor Gill |

| Tank Capacities      |                       | Pumps & capacity            |  |
|----------------------|-----------------------|-----------------------------|--|
| Fuel Oil             | 903.5 m <sup>3</sup>  | 2 x 0-150m <sup>3</sup> / h |  |
| Base Oil             | 203 m <sup>3</sup>    | 2 x 0-100m <sup>3</sup> / h |  |
| Mud, SG 2,8          | 702.9 m <sup>3</sup>  | 4 x 0-100m <sup>3</sup> /h  |  |
| Brine, SG 2,5        | 418 m <sup>3</sup>    | 2 x 0-150m <sup>3</sup> /h  |  |
| FW                   | 1007.3 m <sup>3</sup> | 2 x 0-150m <sup>3</sup> / h |  |
| Methanol LFL*        | 145.5 m <sup>3</sup>  | 1 x 0-75m <sup>3</sup> /h   |  |
| Special Product LFL* | 146 m <sup>3</sup>    | 1 x 0-75m <sup>3</sup> /h   |  |
| Dry Bulk             | 440 m <sup>3</sup>    | 2 x 30m <sup>3</sup> / h    |  |
| Slop                 | 186.8 m <sup>3</sup>  | 2 x 0-100m <sup>3</sup> /h  |  |
| DW/ BW               | 2470 m <sup>3</sup>   | 2 x 0-150m <sup>3</sup> / h |  |
| ORO                  | 1803.2 m <sup>3</sup> | 8 x 0-100m <sup>3</sup> / h |  |

| Deck Equipment         |                                         |
|------------------------|-----------------------------------------|
| Windlass               | 2 off Windlass Mooring Winch            |
| Tugger Winches         | 2 off tugger winch 15 ton               |
| Capstans               | 2 off Capstan, 8 ton                    |
| Cargo Securing Winches | 6 off Securing winches, 3 ton           |
| Deck Crane, PS         | 1 off TTS Marine GPK-115, 3 tonn - 13 m |
| Deck Crane, SB         | 1 off TTS Marine GPT-80, 3 tonn - 13 m  |
| FRC Davit              | 1 off HLT 3 500 TTS                     |
| FRC                    | 1 off FRC 10 person                     |
| Reefer Sockets         | 12 x EX 230V 16Amp                      |
| Life Rafts             | Viking, 4 x 25 person                   |

| Performance                 |                       |
|-----------------------------|-----------------------|
| Max Speed                   | 15,4 knop - 24 t/ 24h |
| Transit Speed               | 14 knop - 19,5 t/ 24h |
| Eco Speed                   | 10 knop - 9,2 t/ 24h  |
| DP Operation                | 4,6 t/ 24h            |
| Standby outside Safety Zone | 3,4 t/ 24h            |
| Port - Shore Power/ Engine  | 0/ 1,8 t/ 24h         |

| Accommodation   |                        |
|-----------------|------------------------|
| Person capacity | 23 persons             |
| Cabins          | 13 x 1-man + 5 x 2-man |

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Tank Capacities Table

| VS485CD - Songa Commander @ 100% |                      |       |          |        |        |        |        |        |          |          |                 |          |        |          |
|----------------------------------|----------------------|-------|----------|--------|--------|--------|--------|--------|----------|----------|-----------------|----------|--------|----------|
| Tank no                          | Description          | SG    | Volume   | BW/ DW | FW     | FO     | Mud    | Brine  | Base Oil | Methanol | Special Product | Dry bulk | Slop   | ORO      |
|                                  |                      | t/m³  | m³       | MT     | MT     | MT     | MT     | MT     | MT       | MT       | MT              | MT       | MT     | m³       |
| 01C                              | Forepeak             | 1.025 | 110.30   | 113.06 |        |        |        |        |          |          |                 |          |        |          |
| 201P                             | DB tk. PS            | 1.025 | 65.00    | 66.63  |        |        |        |        |          |          |                 |          |        |          |
| 202S                             | DB tk. SB            | 1.025 | 65.00    | 66.63  |        |        |        |        |          |          |                 |          |        |          |
| 203P                             | DB tk. PS            | 1.025 | 72.40    | 74.21  |        |        |        |        |          |          |                 |          |        |          |
| 204S                             | DB tk. SB            | 1.025 | 72.40    | 74.21  |        |        |        |        |          |          |                 |          |        |          |
| 231C                             | Roll red. Tk. C      | 1.025 | 159.60   | 163.59 |        |        |        |        |          |          |                 |          |        |          |
| 31P                              | L-tank PS            | 1.025 | 138.70   | 142.17 |        |        |        |        |          |          |                 |          |        |          |
| 32S                              | L-tank SB            | 1.025 | 132.70   | 136.02 |        |        |        |        |          |          |                 |          |        |          |
| 33P                              | L-tank PS            | 1.025 | 135.70   | 139.09 |        |        |        |        |          |          |                 |          |        |          |
| 34S                              | L-tank SB            | 1.025 | 135.70   | 139.09 |        |        |        |        |          |          |                 |          |        |          |
| 402C                             | DB tk. C             | 1.025 | 90.50    | 92.76  |        |        |        |        |          |          |                 |          |        |          |
| 41P                              | L-tank PS            | 1.025 | 154.90   | 158.77 |        |        |        |        |          |          |                 |          |        |          |
| 42S                              | L-tank SB            | 1.025 | 154.90   | 158.77 |        |        |        |        |          |          |                 |          |        |          |
| 501C                             | Skeg tk. C           | 1.025 | 109.30   | 112.03 |        |        |        |        |          |          |                 |          |        |          |
| 51P                              | WB Cofferdam PS      | 1.025 | 190.70   | 195.47 |        |        |        |        |          |          |                 |          |        |          |
| 52S                              | WB Cofferdam SB      | 1.025 | 190.70   | 195.47 |        |        |        |        |          |          |                 |          |        |          |
| 64C                              | Roll red. Tk. C      | 1.025 | 439.90   | 450.90 |        |        |        |        |          |          |                 |          |        |          |
| 73C                              | Aftpeak DB tk. C     | 1.025 | 51.90    | 53.20  |        |        |        |        |          |          |                 |          |        |          |
| 11P                              | Deep tk. PS          | 1.000 | 62.60    |        | 62.60  |        |        |        |          |          |                 |          |        |          |
| 11S                              | Deep tk. SB          | 1.000 | 62.60    |        | 62.60  |        |        |        |          |          |                 |          |        |          |
| 21P                              | Wing tk. PS          | 1.000 | 103.06   |        | 103.06 |        |        |        |          |          |                 |          |        |          |
| 22S                              | Wing tk. SB          | 1.000 | 103.06   |        | 103.06 |        |        |        |          |          |                 |          |        |          |
| 301C                             | DB tk. C             | 1.000 | 84.30    |        | 84.30  |        |        |        |          |          |                 |          |        |          |
| 302C                             | DB tk. C             | 1.000 | 76.60    |        | 76.60  |        |        |        |          |          |                 |          |        |          |
| 61P                              | Deep tk. PS          | 1.000 | 110.50   |        | 110.50 |        |        |        |          |          |                 |          |        |          |
| 62S                              | Deep tk. SB          | 1.000 | 110.50   |        | 110.50 |        |        |        |          |          |                 |          |        |          |
| 71P                              | Aft Wing tk PS       | 1.000 | 36.80    |        | 36.80  |        |        |        |          |          |                 |          |        |          |
| 72S                              | Aft Wing tk SB       | 1.000 | 35.00    |        | 35.00  |        |        |        |          |          |                 |          |        |          |
| 74C                              | Stern tank C         | 1.000 | 120.60   |        | 120.60 |        |        |        |          |          |                 |          |        |          |
| 216P                             | FO tk., A-deck       | 0.850 | 3.30     |        |        | 2.81   |        |        |          |          |                 |          |        |          |
| 217S                             | FO tk. 1st deck      | 0.850 | 1.20     |        |        | 1.02   |        |        |          |          |                 |          |        |          |
| 321P                             | FO Settling tk. 1 PS | 0.850 | 22.30    |        |        | 18.96  |        |        |          |          |                 |          |        |          |
| 322S                             | FO Settling tk. 2 SB | 0.850 | 24.20    |        |        | 20.57  |        |        |          |          |                 |          |        |          |
| 323P                             | FO Service tk. 1 PS  | 0.850 | 18.70    |        |        | 15.90  |        |        |          |          |                 |          |        |          |
| 324S                             | FO Service tk. 2 SB  | 0.850 | 19.80    |        |        | 16.83  |        |        |          |          |                 |          |        |          |
| 410C                             | FO Overflow tk. C    | 0.850 | 65.70    |        |        | 55.85  |        |        |          |          |                 |          |        |          |
| 411C                             | FO Deep tk. C        | 0.850 | 168.50   |        |        | 143.23 |        |        |          |          |                 |          |        |          |
| 412C                             | FO Deep tk. C        | 0.850 | 168.50   |        |        | 143.23 |        |        |          |          |                 |          |        |          |
| 510C                             | FO Deep tk. C        | 0.850 | 297.10   |        |        | 252.54 |        |        |          |          |                 |          |        |          |
| 63C                              | FO Deep tk. C        | 0.850 | 112.30   |        |        | 95.46  |        |        |          |          |                 |          |        |          |
| 325P                             | Liquid Mud tk. 1 PS  | 2.800 | 119.50   |        |        |        | 334.60 |        |          |          |                 |          |        | 119.50   |
| 326S                             | Liquid Mud tk. 2 SB  | 2.800 | 119.50   |        |        |        | 334.60 |        |          |          |                 |          |        | 119.50   |
| 327P                             | Liquid Mud tk. 3 PS  | 2.800 | 116.00   |        |        |        | 324.80 |        |          |          |                 |          |        | 116.00   |
| 328S                             | Liquid Mud tk. 4 SB  | 2.800 | 116.00   |        |        |        | 324.80 |        |          |          |                 |          |        | 116.00   |
| 329P                             | Liquid Mud tk. 5 PS  | 2.800 | 116.00   |        |        |        | 324.80 |        |          |          |                 |          |        | 116.00   |
| 330S                             | Liquid Mud tk. 6 SB  | 2.800 | 116.00   |        |        |        | 324.80 |        |          |          |                 |          |        | 116.00   |
| 425P                             | Brine tk. 1 PS       | 2.500 | 209.00   |        |        |        |        | 522.50 |          |          |                 |          |        | 209.00   |
| 426S                             | Brine tk. 1 SB       | 2.500 | 209.00   |        |        |        |        | 522.50 |          |          |                 |          |        | 209.00   |
| 421 P                            | Base Oil tk. 1 PS    | 0.871 | 101.90   |        |        |        |        |        | 88.70    |          |                 |          |        | 101.90   |
| 422 S                            | Base Oil tk. 2 SB    | 0.871 | 101.90   |        |        |        |        |        | 88.70    |          |                 |          |        | 101.90   |
| 521P                             | Methanol             | 0.800 | 145.50   |        |        |        |        |        |          | 116.40   |                 |          |        | 145.50   |
| 522S                             | Special Product      | 1.200 | 146.30   |        |        |        |        |        |          |          | 175.56          |          |        | 146.30   |
| 311P                             | BHS tk. 1 PS         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 312S                             | BHS tk. 2 SB         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 313P                             | BHS tk. 3 PS         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 314S                             | BHS tk. 4 SB         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 315P                             | BHS tk. 5 PS         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 316S                             | BHS tk. 6 SB         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 317P                             | BHS tk. 7 PS         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 318S                             | BHS tk. 8 SB         | 2.160 | 55.00    |        |        |        |        |        |          |          |                 | 118.80   |        |          |
| 424P                             | Mud Slop PS          | 2.500 | 93.40    |        |        |        |        |        |          |          |                 |          | 233.50 | 93.40    |
| 424S                             | Mud Slop SB          | 2.500 | 93.40    |        |        |        |        |        |          |          |                 |          | 233.50 | 93.40    |
|                                  | ORO                  |       | 1,803.40 |        |        |        |        |        |          |          |                 |          |        | 1,803.40 |



|                       |      |    |          |        |        |          |          |          |          |                 |          |        |          |
|-----------------------|------|----|----------|--------|--------|----------|----------|----------|----------|-----------------|----------|--------|----------|
| All capacities @ 100% |      |    | 2,532.06 | 905.62 | 766.36 | 1,968.40 | 1,045.00 | 177.41   | 116.40   | 175.56          | 950.40   | 467.00 | 1,803.40 |
|                       |      |    | BW/ DW   | FW     | FO     | Mud      | Brine    | Base Oil | Methanol | Special Product | Dry bulk | Slop   | ORO      |
|                       | t/m³ | m³ | MT       | MT     | MT     | MT       | MT       | MT       | MT       | MT              | MT       | MT     | m³       |



REMØY SHIPPING

## VS 485 CD - SONGA COMMANDER

