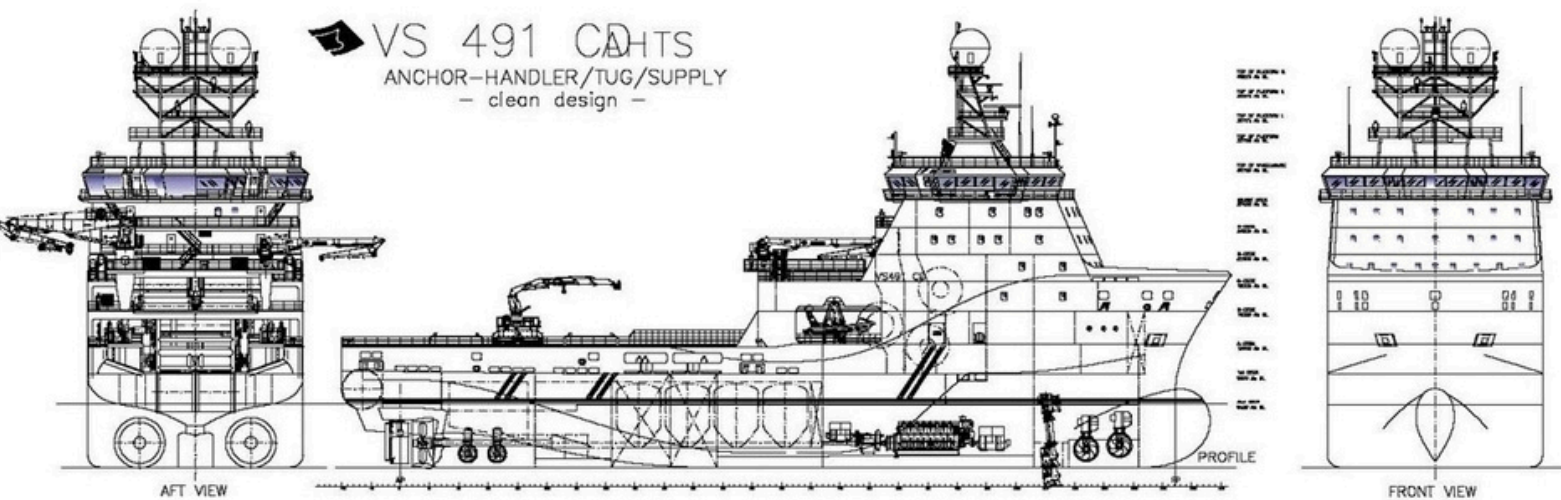


# SIEM OPAL

## SHIP'S PARTICULARS



### IMO NO. 9442419

|                   |   |
|-------------------|---|
| Built             | 2011  |
| Design            | VS 4411 DF  |
| Flag              | Norway  |
| Class             | DNV   |
| Class             | 1A1 Supply vessel Tug BIS Clean(Design) COMF(V3) DK(+) DYNPOS(AUTR) E0 HL(2,5/2,8) Ice(C) NAUT(OSV(A)) OILREC SF TMON |
| DP Class          | DP 2  |
| Reference Systems | 2x DGPS, 1x Radius, 1x SpotTrack, 1x HiPAP, 3x Gyro, 3x Wind Sensors, 2x VRS  |
| Accommodation     | 60  |

### MAIN DIMENSIONS:

|               |       |
|---------------|-------|
| LOA           | 91m   |
| Beam          | 22m   |
| Gross Tonnage | 7473t |
| Net Tonnage   | 2241t |

### CARGO AREA:

|                 |                    |
|-----------------|--------------------|
| Cargo Deck Area | 813m <sup>2</sup>  |
| Max Deck Load   | 1600t              |
| Deck Strength   | 10t/m <sup>2</sup> |

### CAPACITIES CARGO:

|                 |                    |
|-----------------|--------------------|
| Special Product | 189m <sup>3</sup>  |
| Liquid Mud      | 647m <sup>3</sup>  |
| Fuel Oil        | 1224m <sup>3</sup> |
| Fresh Water     | 1071m <sup>3</sup> |
| Dry Bulk        | 291m <sup>3</sup>  |
| Ballast Water   | 2888m <sup>3</sup> |

### SPEED:

|               |                        |
|---------------|------------------------|
| Full Speed    | 60t/ day, 16 knots     |
| Service Speed | 22t/ day, 12 knots     |
| ECO Speed     | 12t/ day, 9.5-10 knots |

### MACHINERY AND PROPULSION:

|                                   |   |
|-----------------------------------|---|
| Main Generator Sets               | 2 x Wartsila 16V32, 2 x 8000 kW<br>2 x 10720 bhp @ 750rpm           |
| Main Generators                   | 2 x AA NIR 7188, 2 x 3400kW @<br>720rpm & 690V                      |
| Aux Engines GenSet                | 2 x CAT 3516C, 2 x 2100 kW<br>2 x 2814 bhp @ 1800rpm                |
| Electric Propulsion Engines (PTI) | 2 x AA QD 560, 2 x 1600kW<br>2 x 2144 bhp @ 800rpm DE-mode          |
| Propellers                        | 2 x CPP LIPS dia4.2m<br>2 x 9215kW @ 144rpm                         |
| Bow Thrusters                     | 2 x Tunnel Thruster, Brunvoll, 2 x 1000 kW<br>2 x 1340 bhp @ 273rpm |
| Bow Azimuth Thruster              | Azimuth Thruster, Brunvoll, 1 x 830 kW<br>1112 bhp @ 364rpm         |
| Stern Thrusters                   | 2 x Tunnel Thruster, Brunvoll, 2 x 880 kW<br>2 x 1179 bhp @ 280rpm  |

### CRANE:

|  |  |
|--|--|
| Gantry Crane:  |  |
| Triplex MDH, Travelling Gantry Crane 42 t for Safe Anchor Handling and Cargo Operations 4,75m Opening Underneath |  |
| Triplex MDH Palfinger  | SWL 27,5t. Max Radius 22,5m<br>2400 kg         |
| Triplex MDH Manipulator Crane  | SWL 2,0t @ Radius 4,7m. Max Swing Radius 5,5 m |
| Triplex MDH Winch  | SWL Max 22,0t. 72m dia32mm Wire                |
| Triplex MDX Wire Clamp   | dia60 - 100mm, Clamping Force 9t               |
| Deck Crane STB   | Hydramarine 3t@15m                             |
| Deck Crane PS  | Hydramarine 10t@18m                            |

### WINCHES AND WIRES:

|                                 |  |
|---------------------------------|--|
| Anchor Handling / Towing Winch  | Brattvaag SL500W3 – Waterfall Type   |
| AH Winch Line Pull              | 500t @ 16,7m/min (1st layer)   |
| AH Winch Brake Load             | 550t (first layer)   |
| AH Winch Drum Capacity          | 7700m dia76mm  |
| AH Wire on Board                | 2500m dia90mm  |
| Tow/Work Winch Line Pull        | 500t @ 17,5m/min (1st layer)   |
| Work Winch Brake Load           | 750t (first layer)   |
| Tow/Work Winch Drum Capacity    | 2 x 4600m dia76mm  |
| Tow Wire on Board               | 2 x 4600m dia76mm  |
| Work Wire on Board              | 300m dia86mm   |
| Secondary Winch                 | 2 x Brattvaag ALM63170U  |
| Secondary Winch Line Pull       | 170t @ 23m/min (1st layer)   |
| Secondary Winch Break Load      | 200t Dynamic Breaking at 70m/min   |
| Secondary Winches Drum Capacity | 2 x 3100m dia160mm Synthetic or 2 x<br>1600m dia203mm Synthetic or 2 x<br>5000m dia76mm Wire |

### AH DECK EQUIPMENT:

|                 |   |
|-----------------|---|
| Towing Pins     | RR, 2 x 250t SWL  |
| Pop-Up Pins     | RR, 2 x 220t SWL  |
| Shark Jaws      | RR, 2 x 800t SWL  |
| Stern Roller    | Double Stern Roller: 2 x<br>dia4000mm   |
| Tugger Winches  | 2 x 24t Pull  |
| Capstans        | 2 x 14t Pull Located  |
| Spooling Sheave | RR, ID ø1400mm, max ø90mm<br>Wire, max diam 125mm Chain.<br>Max Combined Forces 100t. |

### FRC:

|          |                          |
|----------|--------------------------|
| Mob Boat | MP Weedo 700 FRC 12 pers |
|----------|--------------------------|