



| FRESH WATER (1.000 t/m³) |                          |               |            |                       |                       |               |
|--------------------------|--------------------------|---------------|------------|-----------------------|-----------------------|---------------|
| TK.                      | HEIGHT OF AIR PIPE (M.3) | DESCRIPTION   | VOL. (M.3) | L.C.G. in front of AP | V.C.G. above BL (M.4) | MAX. I. (M.4) |
| 300P                     | 14860 ABL                | HIGH TANK     | 48,46      | 51,49                 | 3,20                  | 23,6          |
| 300S                     | 14860 ABL                | HIGH TANK     | 48,46      | 51,49                 | 3,20                  | 23,6          |
| 310P                     | 14860 ABL                | DOUBLE BOTTOM | 12,02      | 47,38                 | 2,16                  | 5,8           |
| 310S                     | 14860 ABL                | DOUBLE BOTTOM | 9,08       | 46,79                 | 2,16                  | 3,7           |
| 810C                     | 9360 ABL                 | AFT TANK      | 57,19      | 3,74                  | 5,05                  | 149,3         |
| TOTAL CAPACITY           |                          |               | 175,2      |                       |                       |               |

| WATER BALLAST (1.025 t/m³) |           |                            |        |       |      |        |
|----------------------------|-----------|----------------------------|--------|-------|------|--------|
| 100C                       | 14860 ABL | FOREPEAK TANK              | 63,25  | 63,41 | 4,87 | 7,7    |
| 200C                       | 14860 ABL | DOUBLE BOTTOM              | 49,14  | 56,33 | 1,72 | 106,0  |
| 420C                       | 12160 ABL | SEMI ACTIVE ANTI-ROLL TANK | 180,98 | 34,19 | 3,28 | 1438,0 |
| 500P                       | 12160 ABL | HEELING TANK               | 55,56  | 28,04 | 1,90 | 27,0   |
| 500S                       | 12160 ABL | HEELING TANK               | 55,56  | 28,04 | 1,90 | 27,0   |
| 600C                       | 9360 ABL  | DOUBLE BOTTOM              | 44,71  | 16,57 | 0,37 | 92,5   |
| 900P                       | 9360 ABL  | AFT PEAK TANK              | 27,45  | -0,75 | 5,34 | 105,0  |
| 900S                       | 9360 ABL  | AFT PEAK TANK              | 27,45  | -0,75 | 5,34 | 105,0  |
| TOTAL CAPACITY             |           |                            | 504,1  |       |      |        |

| MARINE DIESEL OIL (0.850 t/m³) |          |                   |        |       |      |       |
|--------------------------------|----------|-------------------|--------|-------|------|-------|
| 320C                           | 9360 ABL | DOUBLE BOTTOM     | 124,16 | 44,33 | 1,63 | 184,0 |
| 330S                           | 9360 ABL | HIGH TANK         | 37,04  | 42,90 | 4,40 | 9,5   |
| 410P                           | 9360 ABL | DOUBLE BOTTOM     | 36,63  | 38,09 | 1,66 | 16,3  |
| 430C                           | 9360 ABL | DOUBLE BOTTOM     | 24,42  | 32,86 | 0,63 | 27,6  |
| 450P                           | 9360 ABL | DAY TANK          | 13,23  | 37,50 | 4,40 | 0,8   |
| 451P                           | 9360 ABL | DAY/SETTLING TANK | 13,23  | 37,50 | 4,40 | 0,8   |
| 510C                           | 9360 ABL | OVERFLOW TK.      | 33,95  | 26,66 | 0,58 | 41,9  |
| 610P                           | 9360 ABL | SIDE TANK         | 20,53  | 17,21 | 2,39 | 57,3  |
| 610S                           | 9360 ABL | SIDE TANK         | 20,53  | 17,21 | 2,39 | 57,3  |
| 710P                           | 9360 ABL | WING STORAGE      | 75,20  | 10,61 | 4,58 | 76,8  |
| 710S                           | 9360 ABL | WING STORAGE      | 75,20  | 10,61 | 4,58 | 76,8  |
| 820C                           | 9360 ABL | DOUBLE BOTTOM     | 8,47   | 7,77  | 0,25 | 4,3   |
| TOTAL CAPACITY                 |          |                   | 482,6  |       |      |       |

| HYDRAULIC OIL (0.880 t/m³) |          |                |      |       |      |     |
|----------------------------|----------|----------------|------|-------|------|-----|
| 622P                       | 9360 ABL | HYDR. OIL TANK | 4,01 | 19,50 | 2,21 | 8,1 |

| LUBRICATING OIL (0.900 t/m³) |           |                         |       |       |      |      |
|------------------------------|-----------|-------------------------|-------|-------|------|------|
| 210P                         | 14860 ABL | LUBE OIL TANK THRUSTERS | 1,47  | 54,20 | 5,03 | 0,1  |
| 620P                         | 9360 ABL  | LUBE OIL TANK           | 9,42  | 21,01 | 2,10 | 16,0 |
| 620S                         | 9360 ABL  | LUBE OIL TANK           | 13,17 | 20,26 | 2,20 | 22,9 |
| 621P                         | 9360 ABL  | LUBE OIL TANK           | 4,30  | 20,10 | 2,17 | 8,1  |
| TOTAL CAPACITY               |           |                         | 28,19 |       |      |      |

| SEWAGE (1.000 t/m³) |       |                    |       |       |      |     |
|---------------------|-------|--------------------|-------|-------|------|-----|
| 330P                | 23460 | SEWAGE MIXING TK.  | 37,04 | 42,90 | 4,40 | 9,5 |
| 345P                | 23460 | CLEAN SEWAGE TANK. | 12,79 | 47,88 | 3,93 | 3,3 |
| 346S                | 23460 | FOOD WASTE TANK    | 6,21  | 46,80 | 4,00 | 1,4 |
| 347S                | 23460 | SEWAGE SLUDGE TANK | 11,64 | 48,30 | 4,00 | 4,1 |
| TOTAL CAPACITY      |       |                    | 67,69 |       |      |     |

| MISCELLANEOUS (1.000 t/m³) |           |                            |       |       |       |      |
|----------------------------|-----------|----------------------------|-------|-------|-------|------|
| 315S                       | 14860 ABL | CLEAN SW DRAIN TANK        | 2,94  | 49,20 | 2,15  | 0,9  |
| 410S                       | 9360 ABL  | UREA TANK                  | 29,22 | 38,08 | 1,47  | 16,3 |
| 430P                       | 9360 ABL  | SLUDGE TANK                | 17,73 | 33,02 | 0,76  | 21,7 |
| 430S                       | 9360 ABL  | BILGE WATER                | 17,73 | 33,02 | 0,76  | 21,7 |
| 445P                       | 9360 ABL  | BILGE WATER SETTLING TANK. | 4,23  | 31,80 | 4,40  | 0,2  |
| 520P                       | 9360 ABL  | USED OIL                   | 8,09  | 28,53 | 0,77  | 8,8  |
| 520S                       | 9360 ABL  | USED OIL                   | 8,09  | 28,53 | 0,77  | 8,8  |
| 525P                       | 9360 ABL  | FO DRAIN TANK              | 8,05  | 25,27 | 0,85  | 10,6 |
| 525S                       | 9360 ABL  | COOLING WATER DROP TK.     | 8,05  | 25,27 | 0,85  | 10,6 |
| 530C                       | 9360 ABL  | CROSSOVER TA.              | 12,91 | 22,51 | 0,63  | 50,4 |
| 630P                       | 14860 ABL | DAY TANK EM./HARB. GEN.    | 8,15  | 22,95 | 12,67 | 50,4 |
| 730S                       | 9360 ABL  | RSW TANK                   | 3,48  | 8,32  | 7,20  | 0,8  |
| 840P                       | 12160 ABL | CHEMICAL TANK              | 0,69  | 5,70  | 10,75 | 0,0  |
| 841P                       | 12160 ABL | CHEMICAL TANK              | 0,69  | 5,70  | 10,75 | 0,0  |

| VOID (1.000 t/m³) |           |                    |        |       |      |        |
|-------------------|-----------|--------------------|--------|-------|------|--------|
| 301C              | 14860 ABL | DOUBLE BOTTOM      | 84,04  | 45,05 | 1,86 | 1039,2 |
| 400C              | 12160 ABL | DOUBLE BOTTOM      | 47,39  | 39,20 | 1,89 | 989,0  |
| 405S              | -         | FIXED BALLAST TANK | 8,85   | 36,88 | 1,97 | 4,1    |
| 531P              | 9360 ABL  | DOUBLE BOTTOM      | 1,74   | 22,50 | 1,16 | 1,1    |
| 531S              | 9360 ABL  | DOUBLE BOTTOM      | 1,74   | 22,50 | 1,16 | 1,1    |
| 800C              | 9360 ABL  | U-SHAPED TANK      | 121,42 | 6,59  | 5,10 | 3390,1 |
| 830C              | 9360 ABL  | STERN TUBE T.      | 9,60   | 5,06  | 1,51 | 0,9    |

| REV. | DESCRIPTION:                                                 | DATE APPR. | DATE REV. | SIGN: |
|------|--------------------------------------------------------------|------------|-----------|-------|
| E    | TANK PRESSURE ON SEMI ACTIVE TANKS REVISED.                  |            | 13.10.14  | JV    |
| F    | TANKS REARRANGED ACC. TO YARD COMMENTS.                      |            | 01.12.14  | JV    |
| G    | TANKS 430 PS&SB REVISED.                                     |            | 22.12.14  | JV    |
| H    | BILGE SETTLING TANK 445P RELOCATED.                          |            | 03.02.15  | JV    |
| I    | RSW TANKS REVISED. WATER TIGHT BULKHEAD CHANGED TO FRAME 83. |            | 28.03.15  | JV    |
| J    | TANK VOLUMES UPDATED ACCORDING TO STABILITY MODEL            |            | 29.04.16  | TH    |
| K    | FIXED BALLAST ADDED.                                         |            | 01.11.16  | JV    |

ORDER: **Dr. FRIDTJOF NANSEN 460**

TITLE: **TANK CAPACITY PLAN**

PROJECT NO.: **2013038**

ALTERNATIVE DRAWING NO.: **460-101-007-K**

SCALE: **1:150**

DATE: **10.06.13**

SOIL: **JV**

CHECKED: **GE**

DRIVING NO.: **460-101-007-K**

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