### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.639 |
| Displacement t | 6.970 |
| Heel deg | 0.1 |
| Draft at FP m | 0.639 |
| Draft at AP m | 0.639 |
| Draft at LCF m | 0.670 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.998 |
| Beam max extents on WL m | 3.077 |
| Wetted Area m^2 | 23.585 |
| Waterpl. Area m^2 | 20.588 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.402 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.466 |
| LCF from zero pt. (+ve fwd) m | 4.401 |
| KB m | 0.453 |
| KG m | 1.466 |
| BMt m | 1.922 |
| BML m | 13.373 |
| GMt m | 0.909 |
| GML m | 12.361 |
| KMt m | 2.375 |
| KML m | 13.826 |
| Immersion (TPc) tonne/cm | 0.211 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.111 |
| Max deck inclination deg | 0.4125 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.33 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.406 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.639 |
| Displacement t | 6.970 |
| Heel deg | 0.1 |
| Draft at FP m | 0.639 |
| Draft at AP m | 0.639 |
| Draft at LCF m | 0.670 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.998 |
| Beam max extents on WL m | 3.077 |
| Wetted Area m^2 | 23.585 |
| Waterpl. Area m^2 | 20.588 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.402 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.466 |
| LCF from zero pt. (+ve fwd) m | 4.401 |
| KB m | 0.453 |
| KG m | 1.466 |
| BMt m | 1.922 |
| BML m | 13.373 |
| GMt m | 0.909 |
| GML m | 12.361 |
| KMt m | 2.375 |
| KML m | 13.826 |
| Immersion (TPc) tonne/cm | 0.211 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.111 |
| Max deck inclination deg | 0.4125 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.33 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.406 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.639 |
| Displacement t | 6.970 |
| Heel deg | 0.1 |
| Draft at FP m | 0.639 |
| Draft at AP m | 0.639 |
| Draft at LCF m | 0.670 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.998 |
| Beam max extents on WL m | 3.077 |
| Wetted Area m^2 | 23.585 |
| Waterpl. Area m^2 | 20.588 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.402 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.466 |
| LCF from zero pt. (+ve fwd) m | 4.401 |
| KB m | 0.453 |
| KG m | 1.466 |
| BMt m | 1.922 |
| BML m | 13.373 |
| GMt m | 0.909 |
| GML m | 12.361 |
| KMt m | 2.375 |
| KML m | 13.826 |
| Immersion (TPc) tonne/cm | 0.211 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.111 |
| Max deck inclination deg | 0.4125 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.33 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.406 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.639 |
| Displacement t | 6.970 |
| Heel deg | 0.1 |
| Draft at FP m | 0.639 |
| Draft at AP m | 0.639 |
| Draft at LCF m | 0.670 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.998 |
| Beam max extents on WL m | 3.077 |
| Wetted Area m^2 | 23.585 |
| Waterpl. Area m^2 | 20.588 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.402 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.466 |
| LCF from zero pt. (+ve fwd) m | 4.401 |
| KB m | 0.453 |
| KG m | 1.466 |
| BMt m | 1.922 |
| BML m | 13.373 |
| GMt m | 0.909 |
| GML m | 12.361 |
| KMt m | 2.375 |
| KML m | 13.826 |
| Immersion (TPc) tonne/cm | 0.211 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.111 |
| Max deck inclination deg | 0.4125 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.33 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.406 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.639 |
| Displacement t | 6.970 |
| Heel deg | 0.1 |
| Draft at FP m | 0.639 |
| Draft at AP m | 0.639 |
| Draft at LCF m | 0.670 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.998 |
| Beam max extents on WL m | 3.077 |
| Wetted Area m^2 | 23.585 |
| Waterpl. Area m^2 | 20.588 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.402 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.466 |
| LCF from zero pt. (+ve fwd) m | 4.401 |
| KB m | 0.453 |
| KG m | 1.466 |
| BMt m | 1.922 |
| BML m | 13.373 |
| GMt m | 0.909 |
| GML m | 12.361 |
| KMt m | 2.375 |
| KML m | 13.826 |
| Immersion (TPc) tonne/cm | 0.211 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.111 |
| Max deck inclination deg | 0.4125 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.33 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.406 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.642 |
| Displacement t | 7.012 |
| Heel deg | 0.0 |
| Draft at FP m | 0.642 |
| Draft at AP m | 0.642 |
| Draft at LCF m | 0.672 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.999 |
| Beam max extents on WL m | 3.085 |
| Wetted Area m^2 | 23.659 |
| Waterpl. Area m^2 | 20.648 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.403 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.461 |
| LCF from zero pt. (+ve fwd) m | 4.398 |
| KB m | 0.454 |
| KG m | 1.462 |
| BMt m | 1.926 |
| BML m | 13.341 |
| GMt m | 0.919 |
| GML m | 12.333 |
| KMt m | 2.381 |
| KML m | 13.795 |
| Immersion (TPc) tonne/cm | 0.212 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.112 |
| Max deck inclination deg | 0.3896 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.327 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.403 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.642 |
| Displacement t | 7.012 |
| Heel deg | 0.0 |
| Draft at FP m | 0.642 |
| Draft at AP m | 0.642 |
| Draft at LCF m | 0.672 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.999 |
| Beam max extents on WL m | 3.085 |
| Wetted Area m^2 | 23.659 |
| Waterpl. Area m^2 | 20.648 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.403 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.461 |
| LCF from zero pt. (+ve fwd) m | 4.398 |
| KB m | 0.454 |
| KG m | 1.462 |
| BMt m | 1.926 |
| BML m | 13.341 |
| GMt m | 0.919 |
| GML m | 12.333 |
| KMt m | 2.381 |
| KML m | 13.795 |
| Immersion (TPc) tonne/cm | 0.212 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.112 |
| Max deck inclination deg | 0.3896 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.327 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.403 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.642 |
| Displacement t | 7.012 |
| Heel deg | 0.0 |
| Draft at FP m | 0.642 |
| Draft at AP m | 0.642 |
| Draft at LCF m | 0.672 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.999 |
| Beam max extents on WL m | 3.085 |
| Wetted Area m^2 | 23.659 |
| Waterpl. Area m^2 | 20.648 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.403 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.461 |
| LCF from zero pt. (+ve fwd) m | 4.398 |
| KB m | 0.454 |
| KG m | 1.462 |
| BMt m | 1.926 |
| BML m | 13.341 |
| GMt m | 0.919 |
| GML m | 12.333 |
| KMt m | 2.381 |
| KML m | 13.795 |
| Immersion (TPc) tonne/cm | 0.212 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.112 |
| Max deck inclination deg | 0.3896 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.327 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.403 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.642 |
| Displacement t | 7.012 |
| Heel deg | 0.0 |
| Draft at FP m | 0.642 |
| Draft at AP m | 0.642 |
| Draft at LCF m | 0.672 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.999 |
| Beam max extents on WL m | 3.085 |
| Wetted Area m^2 | 23.659 |
| Waterpl. Area m^2 | 20.648 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.403 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.461 |
| LCF from zero pt. (+ve fwd) m | 4.398 |
| KB m | 0.454 |
| KG m | 1.462 |
| BMt m | 1.926 |
| BML m | 13.341 |
| GMt m | 0.919 |
| GML m | 12.333 |
| KMt m | 2.381 |
| KML m | 13.795 |
| Immersion (TPc) tonne/cm | 0.212 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.112 |
| Max deck inclination deg | 0.3896 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.327 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.403 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.642 |
| Displacement t | 7.012 |
| Heel deg | 0.0 |
| Draft at FP m | 0.642 |
| Draft at AP m | 0.642 |
| Draft at LCF m | 0.672 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.999 |
| Beam max extents on WL m | 3.085 |
| Wetted Area m^2 | 23.659 |
| Waterpl. Area m^2 | 20.648 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.403 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.461 |
| LCF from zero pt. (+ve fwd) m | 4.398 |
| KB m | 0.454 |
| KG m | 1.462 |
| BMt m | 1.926 |
| BML m | 13.341 |
| GMt m | 0.919 |
| GML m | 12.333 |
| KMt m | 2.381 |
| KML m | 13.795 |
| Immersion (TPc) tonne/cm | 0.212 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.112 |
| Max deck inclination deg | 0.3896 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.327 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.403 |

### Specified Condition - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

|  |  |
| --- | --- |
| Draft Amidships m | 0.642 |
| Displacement t | 7.012 |
| Heel deg | 0.0 |
| Draft at FP m | 0.642 |
| Draft at AP m | 0.642 |
| Draft at LCF m | 0.672 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.999 |
| Beam max extents on WL m | 3.085 |
| Wetted Area m^2 | 23.659 |
| Waterpl. Area m^2 | 20.648 |
| Prismatic coeff. (Cp) | 0.786 |
| Block coeff. (Cb) | 0.403 |
| Max Sect. area coeff. (Cm) | 0.526 |
| Waterpl. area coeff. (Cwp) | 0.837 |
| LCB from zero pt. (+ve fwd) m | 4.461 |
| LCF from zero pt. (+ve fwd) m | 4.398 |
| KB m | 0.454 |
| KG m | 1.462 |
| BMt m | 1.926 |
| BML m | 13.341 |
| GMt m | 0.919 |
| GML m | 12.333 |
| KMt m | 2.381 |
| KML m | 13.795 |
| Immersion (TPc) tonne/cm | 0.212 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.112 |
| Max deck inclination deg | 0.3896 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.327 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.403 |

### Equilibrium calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 0.000 | 0.000 | 0.000 | 0.000 | User Specified |
| Personal belongings | 10 | 0.030 | 0.300 |  |  | 0.000 | 0.000 | 0.000 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.015 | -0.017 | 1.218 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.218 |  |  |

|  |  |
| --- | --- |
| Draft Amidships m | 0.857 |
| Displacement t | 8.938 |
| Heel deg | -0.6 |
| Draft at FP m | 0.857 |
| Draft at AP m | 0.857 |
| Draft at LCF m | 0.753 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 7.949 |
| Beam max extents on WL m | 3.537 |
| Wetted Area m^2 | 27.315 |
| Waterpl. Area m^2 | 23.427 |
| Prismatic coeff. (Cp) | 0.760 |
| Block coeff. (Cb) | 0.383 |
| Max Sect. area coeff. (Cm) | 0.523 |
| Waterpl. area coeff. (Cwp) | 0.833 |
| LCB from zero pt. (+ve fwd) m | 3.997 |
| LCF from zero pt. (+ve fwd) m | 4.119 |
| KB m | 0.512 |
| KG fluid m | 1.218 |
| BMt m | 2.243 |
| BML m | 12.109 |
| GMt corrected m | 1.536 |
| GML m | 11.403 |
| KMt m | 2.754 |
| KML m | 12.617 |
| Immersion (TPc) tonne/cm | 0.240 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.240 |
| Max deck inclination deg | 1.5724 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.112 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.188 |

### Equilibrium calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |

|  |  |
| --- | --- |
| Draft Amidships m | 0.732 |
| Displacement t | 8.938 |
| Heel deg | -1.0 |
| Draft at FP m | 0.732 |
| Draft at AP m | 0.732 |
| Draft at LCF m | 0.754 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 8.128 |
| Beam max extents on WL m | 3.474 |
| Wetted Area m^2 | 27.226 |
| Waterpl. Area m^2 | 23.618 |
| Prismatic coeff. (Cp) | 0.789 |
| Block coeff. (Cb) | 0.403 |
| Max Sect. area coeff. (Cm) | 0.520 |
| Waterpl. area coeff. (Cwp) | 0.836 |
| LCB from zero pt. (+ve fwd) m | 4.398 |
| LCF from zero pt. (+ve fwd) m | 4.355 |
| KB m | 0.510 |
| KG fluid m | 1.662 |
| BMt m | 2.189 |
| BML m | 12.434 |
| GMt corrected m | 1.037 |
| GML m | 11.282 |
| KMt m | 2.698 |
| KML m | 12.942 |
| Immersion (TPc) tonne/cm | 0.242 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.162 |
| Max deck inclination deg | 1.0221 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.237 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.313 |

### Hydrostatics - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Damage Case - Intact

Fixed Trim = 0 m (+ve by stern)

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

| **Draft Amidships**  **m** | **0.610** | **0.710** | **0.810** | **0.910** |
| --- | --- | --- | --- | --- |
| Displacement t | 5.745 | 7.880 | 10.38 | 13.15 |
| Heel deg | 0.0 | 0.0 | 0.0 | 0.0 |
| Draft at FP m | 0.610 | 0.710 | 0.810 | 0.910 |
| Draft at AP m | 0.610 | 0.710 | 0.810 | 0.910 |
| Draft at LCF m | 0.610 | 0.710 | 0.810 | 0.910 |
| Trim (+ve by stern) m | 0.000 | 0.000 | 0.000 | 0.000 |
| WL Length m | 7.858 | 8.023 | 8.181 | 8.336 |
| Beam max extents on WL m | 2.843 | 3.241 | 3.648 | 3.648 |
| Wetted Area m^2 | 21.421 | 25.164 | 29.587 | 32.504 |
| Waterpl. Area m^2 | 18.792 | 21.864 | 25.259 | 26.598 |
| Prismatic coeff. (Cp) | 0.785 | 0.790 | 0.793 | 0.799 |
| Block coeff. (Cb) | 0.411 | 0.416 | 0.419 | 0.464 |
| Max Sect. area coeff. (Cm) | 0.524 | 0.527 | 0.529 | 0.581 |
| Waterpl. area coeff. (Cwp) | 0.841 | 0.841 | 0.846 | 0.875 |
| LCB from zero pt. (+ve fwd) m | 4.384 | 4.352 | 4.319 | 4.302 |
| LCF from zero pt. (+ve fwd) m | 4.352 | 4.334 | 4.321 | 4.405 |
| KB m | 0.413 | 0.480 | 0.547 | 0.611 |
| KG m | 1.462 | 1.462 | 1.462 | 1.462 |
| BMt m | 1.831 | 2.021 | 2.263 | 1.938 |
| BML m | 14.427 | 12.757 | 11.740 | 10.414 |
| GMt m | 0.782 | 1.039 | 1.348 | 1.088 |
| GML m | 13.378 | 11.774 | 10.825 | 9.564 |
| KMt m | 2.244 | 2.501 | 2.810 | 2.550 |
| KML m | 14.840 | 13.236 | 12.287 | 11.026 |
| Immersion (TPc) tonne/cm | 0.193 | 0.224 | 0.259 | 0.273 |
| MTc tonne.m | 0.000 | 0.000 | 0.000 | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.078 | 0.143 | 0.244 | 0.250 |
| Max deck inclination deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 |





### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **-30.0** | **-20.0** | **-10.0** | **0.0** | **10.0** | **20.0** | **30.0** | **40.0** | **50.0** | **60.0** | **70.0** | **80.0** | **90.0** | **100.0** | **110.0** | **120.0** | **130.0** | **140.0** | **150.0** | **160.0** | **170.0** | **180.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | -0.201 | -0.189 | -0.132 | 0.017 | 0.165 | 0.221 | 0.230 | 0.225 | 0.236 | 0.254 | 0.249 | 0.178 | 0.055 | -0.089 | -0.236 | -0.370 | -0.486 | -0.586 | -0.644 | -0.621 | -0.407 | -0.017 |
| Area under GZ curve from zero heel m.deg | 4.2662 | 2.3005 | 0.6284 | 0.0000 | 0.9631 | 2.9577 | 5.2341 | 7.5083 | 9.8016 | 12.2583 | 14.8145 | 17.0052 | 18.1974 | 18.0364 | 16.4102 | 13.3693 | 9.0778 | 3.6952 | -2.4975 | -8.9404 | -14.2596 | -16.4651 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.474 | 0.621 | 0.707 | 0.735 | 0.707 | 0.621 | 0.474 | 0.263 | -0.051 | -0.597 | -1.693 | -4.792 | n/a | -7.079 | -4.038 | -2.991 | -2.445 | -2.118 | -1.932 | -1.858 | -1.878 | -1.889 |
| Draft at AP m | 0.474 | 0.621 | 0.707 | 0.735 | 0.707 | 0.621 | 0.474 | 0.263 | -0.051 | -0.597 | -1.693 | -4.792 | n/a | -7.079 | -4.038 | -2.991 | -2.445 | -2.118 | -1.932 | -1.858 | -1.878 | -1.889 |
| WL Length m | 8.781 | 8.907 | 8.936 | 8.121 | 8.936 | 8.907 | 8.781 | 8.837 | 8.938 | 8.927 | 8.794 | 9.071 | 9.268 | 9.394 | 9.490 | 9.566 | 9.711 | 9.814 | 9.848 | 9.816 | 9.656 | 8.969 |
| Beam max extents on WL m | 2.736 | 2.842 | 3.087 | 3.416 | 3.087 | 2.842 | 2.736 | 2.751 | 2.921 | 2.921 | 2.786 | 2.430 | 2.274 | 2.206 | 2.207 | 2.311 | 2.399 | 2.568 | 2.798 | 3.664 | 3.617 | 3.634 |
| Wetted Area m^2 | 24.903 | 25.107 | 25.569 | 26.871 | 25.569 | 25.107 | 24.903 | 25.374 | 25.937 | 26.017 | 27.616 | 28.406 | 28.257 | 28.094 | 28.033 | 27.971 | 27.803 | 27.753 | 28.211 | 30.987 | 36.102 | 37.019 |
| Waterpl. Area m^2 | 20.137 | 20.648 | 21.765 | 23.286 | 21.765 | 20.649 | 20.137 | 20.454 | 21.042 | 20.527 | 19.750 | 17.378 | 16.349 | 15.713 | 15.616 | 15.811 | 16.087 | 16.387 | 17.413 | 20.335 | 25.420 | 26.758 |
| Prismatic coeff. (Cp) | 0.721 | 0.713 | 0.711 | 0.790 | 0.711 | 0.713 | 0.721 | 0.714 | 0.700 | 0.701 | 0.715 | 0.703 | 0.696 | 0.694 | 0.686 | 0.647 | 0.603 | 0.565 | 0.536 | 0.514 | 0.526 | 0.574 |
| Block coeff. (Cb) | 0.511 | 0.549 | 0.436 | 0.410 | 0.436 | 0.549 | 0.511 | 0.421 | 0.354 | 0.347 | 0.394 | 0.493 | 0.615 | 0.543 | 0.415 | 0.328 | 0.275 | 0.238 | 0.216 | 0.176 | 0.214 | 0.294 |
| LCB from zero pt. (+ve fwd) m | 4.406 | 4.400 | 4.397 | 4.397 | 4.397 | 4.400 | 4.406 | 4.411 | 4.413 | 4.412 | 4.402 | 4.382 | 4.355 | 4.326 | 4.301 | 4.279 | 4.263 | 4.254 | 4.258 | 4.274 | 4.295 | 4.301 |
| LCF from zero pt. (+ve fwd) m | 4.600 | 4.479 | 4.468 | 4.371 | 4.468 | 4.479 | 4.600 | 4.666 | 4.682 | 4.766 | 4.750 | 4.842 | 4.828 | 4.752 | 4.682 | 4.570 | 4.438 | 4.379 | 4.400 | 4.388 | 4.619 | 4.809 |
| Max deck inclination deg | 30.0061 | 20.0033 | 10.0028 | 0.2578 | 10.0028 | 20.0033 | 30.0061 | 40.0073 | 50.0061 | 60.0035 | 70.0005 | 80.0002 | 90.0000 | 99.9898 | 109.9575 | 119.8888 | 129.7636 | 139.5621 | 149.2841 | 158.9320 | 168.2802 | 174.0149 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 10.0 deg**  **m** | **Freeboard at 20.0 deg**  **m** | **Freeboard at 30.0 deg**  **m** | **Freeboard at 40.0 deg**  **m** | **Freeboard at 50.0 deg**  **m** | **Freeboard at 60.0 deg**  **m** | **Freeboard at 70.0 deg**  **m** | **Freeboard at 80.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 100.0 deg**  **m** | **Freeboard at 110.0 deg**  **m** | **Freeboard at 120.0 deg**  **m** | **Freeboard at 130.0 deg**  **m** | **Freeboard at 140.0 deg**  **m** | **Freeboard at 150.0 deg**  **m** | **Freeboard at 160.0 deg**  **m** | **Freeboard at 170.0 deg**  **m** | **Freeboard at 180.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 41 | n/a | 0.234 | 0.258 | 0.327 | 0.203 | 0.016 | -0.152 | -0.282 | -0.376 | -0.512 | -0.638 | -0.763 | -0.980 | -1.168 | -1.311 | -1.390 | -1.386 | -1.278 | -1.056 | -0.791 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.5 | n/a | 0.310 | 0.333 | 0.398 | 0.273 | 0.079 | -0.097 | -0.237 | -0.343 | -0.495 | -0.635 | -0.775 | -1.002 | -1.203 | -1.356 | -1.445 | -1.449 | -1.348 | -1.130 | -0.866 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **5.0** | **10.0** | **15.0** | **20.0** | **25.0** | **30.0** | **35.0** | **40.0** | **45.0** | **50.0** | **55.0** | **60.0** | **65.0** | **70.0** | **75.0** | **80.0** | **85.0** | **90.0** | **95.0** | **100.0** | **105.0** | **110.0** | **115.0** | **120.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.098 | 0.165 | 0.200 | 0.221 | 0.229 | 0.230 | 0.228 | 0.225 | 0.228 | 0.236 | 0.249 | 0.254 | 0.255 | 0.249 | 0.224 | 0.178 | 0.120 | 0.055 | -0.016 | -0.089 | -0.163 | -0.236 | -0.304 | -0.370 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 0.2898 | 0.9591 | 1.8807 | 2.9356 | 4.0645 | 5.2155 | 6.3613 | 7.4918 | 8.6208 | 9.7782 | 10.9928 | 12.2533 | 13.5280 | 14.7941 | 15.9860 | 16.9974 | 17.7458 | 18.1857 | 18.2856 | 18.0257 | 17.3963 | 16.3985 | 15.0479 | 13.3634 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.937 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.709 | 0.707 | 0.670 | 0.621 | 0.556 | 0.474 | 0.376 | 0.263 | 0.123 | -0.051 | -0.284 | -0.597 | -1.034 | -1.693 | -2.751 | -4.792 | -10.820 | n/a | -13.096 | -7.079 | -5.060 | -4.038 | -3.414 | -2.991 |
| Draft at AP m | 0.735 | 0.709 | 0.707 | 0.670 | 0.621 | 0.556 | 0.474 | 0.376 | 0.263 | 0.123 | -0.051 | -0.284 | -0.597 | -1.034 | -1.693 | -2.751 | -4.792 | -10.820 | n/a | -13.096 | -7.079 | -5.060 | -4.038 | -3.414 | -2.991 |
| WL Length m | 8.121 | 8.151 | 8.936 | 8.947 | 8.907 | 8.851 | 8.781 | 8.752 | 8.837 | 8.899 | 8.938 | 8.953 | 8.927 | 8.867 | 8.794 | 8.921 | 9.071 | 9.181 | 9.268 | 9.335 | 9.394 | 9.446 | 9.490 | 9.526 | 9.566 |
| Beam max extents on WL m | 3.416 | 3.269 | 3.087 | 2.945 | 2.842 | 2.774 | 2.736 | 2.726 | 2.751 | 2.813 | 2.921 | 2.986 | 2.921 | 2.898 | 2.786 | 2.692 | 2.430 | 2.341 | 2.274 | 2.231 | 2.206 | 2.198 | 2.207 | 2.234 | 2.311 |
| Wetted Area m^2 | 26.871 | 26.980 | 25.569 | 25.357 | 25.107 | 24.997 | 24.903 | 24.964 | 25.374 | 25.573 | 25.937 | 25.945 | 26.017 | 26.498 | 27.616 | 28.302 | 28.406 | 28.373 | 28.257 | 28.211 | 28.094 | 28.040 | 28.033 | 28.017 | 27.970 |
| Waterpl. Area m^2 | 23.286 | 23.066 | 21.765 | 21.174 | 20.649 | 20.363 | 20.137 | 20.147 | 20.454 | 20.639 | 21.042 | 20.835 | 20.527 | 20.724 | 19.750 | 18.250 | 17.378 | 16.811 | 16.349 | 16.026 | 15.714 | 15.599 | 15.616 | 15.707 | 15.811 |
| Prismatic coeff. (Cp) | 0.790 | 0.791 | 0.711 | 0.710 | 0.713 | 0.717 | 0.721 | 0.722 | 0.714 | 0.706 | 0.700 | 0.699 | 0.701 | 0.706 | 0.715 | 0.711 | 0.703 | 0.698 | 0.696 | 0.695 | 0.694 | 0.692 | 0.686 | 0.666 | 0.647 |
| Block coeff. (Cb) | 0.410 | 0.432 | 0.436 | 0.485 | 0.549 | 0.572 | 0.511 | 0.464 | 0.421 | 0.385 | 0.354 | 0.338 | 0.347 | 0.360 | 0.394 | 0.424 | 0.493 | 0.548 | 0.615 | 0.603 | 0.543 | 0.471 | 0.415 | 0.370 | 0.328 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.401 | 4.397 | 4.398 | 4.400 | 4.403 | 4.406 | 4.409 | 4.411 | 4.413 | 4.413 | 4.414 | 4.412 | 4.408 | 4.402 | 4.394 | 4.382 | 4.369 | 4.355 | 4.341 | 4.326 | 4.313 | 4.301 | 4.289 | 4.279 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.374 | 4.468 | 4.479 | 4.479 | 4.581 | 4.600 | 4.614 | 4.666 | 4.643 | 4.682 | 4.750 | 4.766 | 4.809 | 4.750 | 4.781 | 4.842 | 4.842 | 4.828 | 4.807 | 4.752 | 4.714 | 4.682 | 4.636 | 4.570 |
| Max deck inclination deg | 0.2578 | 5.0192 | 10.0028 | 15.0029 | 20.0033 | 25.0045 | 30.0061 | 35.0074 | 40.0073 | 45.0070 | 50.0061 | 55.0053 | 60.0035 | 65.0016 | 70.0005 | 75.0000 | 80.0002 | 85.0006 | 90.0000 | 94.9969 | 99.9898 | 104.9772 | 109.9575 | 114.9287 | 119.8888 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 5.0 deg**  **m** | **Freeboard at 10.0 deg**  **m** | **Freeboard at 15.0 deg**  **m** | **Freeboard at 20.0 deg**  **m** | **Freeboard at 25.0 deg**  **m** | **Freeboard at 30.0 deg**  **m** | **Freeboard at 35.0 deg**  **m** | **Freeboard at 40.0 deg**  **m** | **Freeboard at 45.0 deg**  **m** | **Freeboard at 50.0 deg**  **m** | **Freeboard at 55.0 deg**  **m** | **Freeboard at 60.0 deg**  **m** | **Freeboard at 65.0 deg**  **m** | **Freeboard at 70.0 deg**  **m** | **Freeboard at 75.0 deg**  **m** | **Freeboard at 80.0 deg**  **m** | **Freeboard at 85.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 95.0 deg**  **m** | **Freeboard at 100.0 deg**  **m** | **Freeboard at 105.0 deg**  **m** | **Freeboard at 110.0 deg**  **m** | **Freeboard at 115.0 deg**  **m** | **Freeboard at 120.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 40.9 | n/a | 0.234 | 0.259 | 0.258 | 0.289 | 0.327 | 0.302 | 0.203 | 0.109 | 0.016 | -0.071 | -0.152 | -0.222 | -0.282 | -0.334 | -0.376 | -0.441 | -0.512 | -0.578 | -0.638 | -0.692 | -0.763 | -0.875 | -0.980 | -1.079 | -1.168 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.4 | n/a | 0.310 | 0.335 | 0.333 | 0.362 | 0.398 | 0.374 | 0.273 | 0.175 | 0.079 | -0.012 | -0.097 | -0.172 | -0.237 | -0.295 | -0.343 | -0.418 | -0.495 | -0.568 | -0.635 | -0.695 | -0.775 | -0.893 | -1.002 | -1.108 | -1.203 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **20.0** | **40.0** | **60.0** | **80.0** | **82.0** | **84.0** | **86.0** | **88.0** | **90.0** | **92.0** | **94.0** | **96.0** | **98.0** | **100.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.221 | 0.225 | 0.254 | 0.178 | 0.156 | 0.132 | 0.108 | 0.082 | 0.055 | 0.027 | -0.001 | -0.030 | -0.059 | -0.089 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 2.3740 | 6.8307 | 11.6227 | 15.9426 | 16.2763 | 16.5645 | 16.8044 | 16.9936 | 17.1301 | 17.2121 | 17.2381 | 17.2069 | 17.1178 | 16.9699 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.621 | 0.263 | -0.597 | -4.792 | -6.303 | -8.814 | -13.825 | -28.831 | n/a | -31.101 | -16.098 | -11.093 | -8.587 | -7.079 |
| Draft at AP m | 0.735 | 0.621 | 0.263 | -0.597 | -4.792 | -6.303 | -8.814 | -13.825 | -28.831 | n/a | -31.101 | -16.098 | -11.093 | -8.587 | -7.079 |
| WL Length m | 8.121 | 8.907 | 8.837 | 8.927 | 9.071 | 9.118 | 9.161 | 9.201 | 9.236 | 9.268 | 9.297 | 9.323 | 9.348 | 9.372 | 9.394 |
| Beam max extents on WL m | 3.416 | 2.842 | 2.751 | 2.921 | 2.430 | 2.391 | 2.357 | 2.325 | 2.298 | 2.274 | 2.254 | 2.238 | 2.224 | 2.213 | 2.206 |
| Wetted Area m^2 | 26.871 | 25.107 | 25.374 | 26.017 | 28.406 | 28.388 | 28.384 | 28.364 | 28.305 | 28.257 | 28.214 | 28.190 | 28.229 | 28.225 | 28.094 |
| Waterpl. Area m^2 | 23.286 | 20.649 | 20.454 | 20.527 | 17.378 | 17.130 | 16.904 | 16.725 | 16.515 | 16.349 | 16.211 | 16.100 | 15.964 | 15.896 | 15.714 |
| Prismatic coeff. (Cp) | 0.790 | 0.713 | 0.714 | 0.701 | 0.703 | 0.701 | 0.699 | 0.698 | 0.697 | 0.696 | 0.696 | 0.695 | 0.695 | 0.695 | 0.694 |
| Block coeff. (Cb) | 0.410 | 0.549 | 0.421 | 0.347 | 0.493 | 0.513 | 0.536 | 0.560 | 0.587 | 0.615 | 0.627 | 0.612 | 0.594 | 0.577 | 0.543 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.400 | 4.411 | 4.412 | 4.382 | 4.377 | 4.372 | 4.366 | 4.361 | 4.355 | 4.349 | 4.343 | 4.338 | 4.332 | 4.326 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.479 | 4.666 | 4.766 | 4.842 | 4.842 | 4.841 | 4.843 | 4.833 | 4.828 | 4.823 | 4.817 | 4.799 | 4.792 | 4.752 |
| Max deck inclination deg | 0.2578 | 20.0033 | 40.0073 | 60.0035 | 80.0002 | 82.0004 | 84.0006 | 86.0006 | 88.0005 | 90.0000 | 91.9991 | 93.9978 | 95.9958 | 97.9932 | 99.9898 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 20.0 deg**  **m** | **Freeboard at 40.0 deg**  **m** | **Freeboard at 60.0 deg**  **m** | **Freeboard at 80.0 deg**  **m** | **Freeboard at 82.0 deg**  **m** | **Freeboard at 84.0 deg**  **m** | **Freeboard at 86.0 deg**  **m** | **Freeboard at 88.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 92.0 deg**  **m** | **Freeboard at 94.0 deg**  **m** | **Freeboard at 96.0 deg**  **m** | **Freeboard at 98.0 deg**  **m** | **Freeboard at 100.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 41.1 | n/a | 0.234 | 0.327 | 0.016 | -0.282 | -0.512 | -0.539 | -0.565 | -0.590 | -0.615 | -0.638 | -0.661 | -0.682 | -0.702 | -0.720 | -0.763 |
| Deck Edge (immersion pos = 0.524 m) |  | 45 | n/a | 0.310 | 0.398 | 0.079 | -0.237 | -0.495 | -0.524 | -0.553 | -0.582 | -0.609 | -0.635 | -0.660 | -0.683 | -0.706 | -0.728 | -0.775 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **45.0** | **90.0** | **91.0** | **92.0** | **93.0** | **94.0** | **95.0** | **96.0** | **97.0** | **98.0** | **99.0** | **100.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.228 | 0.055 | 0.041 | 0.027 | 0.013 | -0.001 | -0.016 | -0.030 | -0.045 | -0.059 | -0.074 | -0.089 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 5.4984 | 11.8525 | 11.9004 | 11.9346 | 11.9547 | 11.9606 | 11.9523 | 11.9295 | 11.8922 | 11.8404 | 11.7739 | 11.6926 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.937 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.123 | n/a | -61.087 | -31.101 | -21.100 | -16.098 | -13.096 | -11.093 | -9.661 | -8.587 | -7.750 | -7.079 |
| Draft at AP m | 0.735 | 0.123 | n/a | -61.087 | -31.101 | -21.100 | -16.098 | -13.096 | -11.093 | -9.661 | -8.587 | -7.750 | -7.079 |
| WL Length m | 8.121 | 8.899 | 9.268 | 9.283 | 9.297 | 9.310 | 9.323 | 9.335 | 9.348 | 9.360 | 9.372 | 9.383 | 9.394 |
| Beam max extents on WL m | 3.416 | 2.813 | 2.274 | 2.264 | 2.254 | 2.246 | 2.238 | 2.231 | 2.224 | 2.218 | 2.213 | 2.209 | 2.206 |
| Wetted Area m^2 | 26.871 | 25.573 | 28.258 | 28.237 | 28.214 | 28.200 | 28.190 | 28.210 | 28.229 | 28.227 | 28.225 | 28.205 | 28.094 |
| Waterpl. Area m^2 | 23.286 | 20.639 | 16.349 | 16.285 | 16.211 | 16.149 | 16.100 | 16.026 | 15.964 | 15.931 | 15.896 | 15.844 | 15.714 |
| Prismatic coeff. (Cp) | 0.790 | 0.706 | 0.696 | 0.696 | 0.696 | 0.696 | 0.695 | 0.695 | 0.695 | 0.695 | 0.695 | 0.694 | 0.694 |
| Block coeff. (Cb) | 0.410 | 0.385 | 0.615 | 0.624 | 0.627 | 0.621 | 0.612 | 0.603 | 0.594 | 0.586 | 0.577 | 0.559 | 0.543 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.413 | 4.355 | 4.352 | 4.349 | 4.346 | 4.343 | 4.341 | 4.338 | 4.335 | 4.332 | 4.329 | 4.326 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.643 | 4.828 | 4.827 | 4.823 | 4.819 | 4.817 | 4.807 | 4.799 | 4.797 | 4.792 | 4.784 | 4.752 |
| Max deck inclination deg | 0.2578 | 45.0070 | 90.0000 | 90.9996 | 91.9991 | 92.9985 | 93.9978 | 94.9969 | 95.9958 | 96.9946 | 97.9932 | 98.9916 | 99.9898 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 45.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 91.0 deg**  **m** | **Freeboard at 92.0 deg**  **m** | **Freeboard at 93.0 deg**  **m** | **Freeboard at 94.0 deg**  **m** | **Freeboard at 95.0 deg**  **m** | **Freeboard at 96.0 deg**  **m** | **Freeboard at 97.0 deg**  **m** | **Freeboard at 98.0 deg**  **m** | **Freeboard at 99.0 deg**  **m** | **Freeboard at 100.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 41.7 | n/a | 0.234 | -0.071 | -0.638 | -0.650 | -0.661 | -0.671 | -0.682 | -0.692 | -0.702 | -0.711 | -0.720 | -0.742 | -0.763 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.5 | n/a | 0.310 | -0.012 | -0.635 | -0.647 | -0.660 | -0.672 | -0.683 | -0.695 | -0.706 | -0.717 | -0.728 | -0.752 | -0.775 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **45.0** | **90.0** | **90.5** | **91.0** | **91.5** | **92.0** | **92.5** | **93.0** | **93.5** | **94.0** | **94.5** | **95.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.228 | 0.055 | 0.048 | 0.041 | 0.034 | 0.027 | 0.020 | 0.013 | 0.006 | -0.001 | -0.008 | -0.016 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 5.4984 | 11.8525 | 11.8782 | 11.9004 | 11.9193 | 11.9346 | 11.9464 | 11.9547 | 11.9595 | 11.9606 | 11.9583 | 11.9523 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.123 | n/a | -121.047 | -61.085 | -41.097 | -31.100 | -25.101 | -21.100 | -18.242 | -16.098 | -14.430 | -13.095 |
| Draft at AP m | 0.735 | 0.123 | n/a | -121.047 | -61.085 | -41.097 | -31.100 | -25.101 | -21.100 | -18.242 | -16.098 | -14.430 | -13.095 |
| WL Length m | 8.121 | 8.899 | 9.268 | 9.275 | 9.283 | 9.290 | 9.297 | 9.303 | 9.310 | 9.316 | 9.323 | 9.329 | 9.335 |
| Beam max extents on WL m | 3.416 | 2.813 | 2.274 | 2.268 | 2.264 | 2.259 | 2.254 | 2.250 | 2.246 | 2.242 | 2.238 | 2.234 | 2.231 |
| Wetted Area m^2 | 26.871 | 25.573 | 28.258 | 28.248 | 28.238 | 28.226 | 28.214 | 28.206 | 28.200 | 28.195 | 28.190 | 28.186 | 28.211 |
| Waterpl. Area m^2 | 23.286 | 20.639 | 16.349 | 16.320 | 16.285 | 16.247 | 16.211 | 16.177 | 16.149 | 16.124 | 16.100 | 16.078 | 16.026 |
| Prismatic coeff. (Cp) | 0.790 | 0.706 | 0.696 | 0.696 | 0.696 | 0.696 | 0.696 | 0.696 | 0.696 | 0.695 | 0.695 | 0.695 | 0.695 |
| Block coeff. (Cb) | 0.410 | 0.385 | 0.615 | 0.620 | 0.624 | 0.626 | 0.627 | 0.625 | 0.621 | 0.616 | 0.612 | 0.607 | 0.603 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.413 | 4.355 | 4.354 | 4.352 | 4.351 | 4.349 | 4.348 | 4.346 | 4.345 | 4.343 | 4.342 | 4.341 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.643 | 4.828 | 4.828 | 4.827 | 4.825 | 4.823 | 4.821 | 4.819 | 4.818 | 4.817 | 4.816 | 4.807 |
| Max deck inclination deg | 0.2578 | 45.0070 | 90.0000 | 90.4998 | 90.9996 | 91.4994 | 91.9991 | 92.4989 | 92.9985 | 93.4982 | 93.9978 | 94.4974 | 94.9969 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 45.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 90.5 deg**  **m** | **Freeboard at 91.0 deg**  **m** | **Freeboard at 91.5 deg**  **m** | **Freeboard at 92.0 deg**  **m** | **Freeboard at 92.5 deg**  **m** | **Freeboard at 93.0 deg**  **m** | **Freeboard at 93.5 deg**  **m** | **Freeboard at 94.0 deg**  **m** | **Freeboard at 94.5 deg**  **m** | **Freeboard at 95.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 41.7 | n/a | 0.234 | -0.071 | -0.638 | -0.644 | -0.650 | -0.655 | -0.661 | -0.666 | -0.671 | -0.677 | -0.682 | -0.687 | -0.692 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.5 | n/a | 0.310 | -0.012 | -0.635 | -0.641 | -0.647 | -0.654 | -0.660 | -0.666 | -0.672 | -0.678 | -0.683 | -0.689 | -0.695 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **45.0** | **90.0** | **91.5** | **93.0** | **93.1** | **93.2** | **93.3** | **93.4** | **93.5** | **93.6** | **93.7** | **93.8** | **93.9** | **94.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.228 | 0.055 | 0.034 | 0.013 | 0.012 | 0.010 | 0.009 | 0.007 | 0.006 | 0.005 | 0.003 | 0.002 | 0.000 | -0.001 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 5.4984 | 11.8525 | 11.9192 | 11.9546 | 11.9559 | 11.9569 | 11.9579 | 11.9587 | 11.9594 | 11.9599 | 11.9603 | 11.9605 | 11.9606 | 11.9606 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.123 | n/a | -41.098 | -21.100 | -20.455 | -19.850 | -19.282 | -18.747 | -18.242 | -17.766 | -17.315 | -16.888 | -16.483 | -16.098 |
| Draft at AP m | 0.735 | 0.123 | n/a | -41.098 | -21.100 | -20.455 | -19.850 | -19.282 | -18.747 | -18.242 | -17.766 | -17.315 | -16.888 | -16.483 | -16.098 |
| WL Length m | 8.121 | 8.899 | 9.268 | 9.290 | 9.310 | 9.311 | 9.313 | 9.314 | 9.315 | 9.316 | 9.318 | 9.319 | 9.320 | 9.322 | 9.323 |
| Beam max extents on WL m | 3.416 | 2.813 | 2.274 | 2.259 | 2.246 | 2.245 | 2.244 | 2.243 | 2.242 | 2.242 | 2.241 | 2.240 | 2.239 | 2.239 | 2.238 |
| Wetted Area m^2 | 26.871 | 25.573 | 28.258 | 28.226 | 28.200 | 28.199 | 28.198 | 28.197 | 28.196 | 28.195 | 28.194 | 28.193 | 28.192 | 28.191 | 28.190 |
| Waterpl. Area m^2 | 23.286 | 20.639 | 16.349 | 16.247 | 16.149 | 16.144 | 16.139 | 16.134 | 16.129 | 16.124 | 16.119 | 16.114 | 16.109 | 16.104 | 16.100 |
| Prismatic coeff. (Cp) | 0.790 | 0.706 | 0.696 | 0.696 | 0.696 | 0.696 | 0.696 | 0.695 | 0.695 | 0.695 | 0.695 | 0.695 | 0.695 | 0.695 | 0.695 |
| Block coeff. (Cb) | 0.410 | 0.385 | 0.615 | 0.626 | 0.621 | 0.620 | 0.619 | 0.618 | 0.617 | 0.616 | 0.615 | 0.614 | 0.613 | 0.613 | 0.612 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.413 | 4.355 | 4.351 | 4.346 | 4.346 | 4.346 | 4.345 | 4.345 | 4.345 | 4.345 | 4.344 | 4.344 | 4.344 | 4.343 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.643 | 4.828 | 4.825 | 4.819 | 4.819 | 4.819 | 4.819 | 4.818 | 4.818 | 4.818 | 4.818 | 4.818 | 4.817 | 4.817 |
| Max deck inclination deg | 0.2578 | 45.0070 | 90.0000 | 91.4994 | 92.9985 | 93.0985 | 93.1984 | 93.2983 | 93.3983 | 93.4982 | 93.5981 | 93.6980 | 93.7979 | 93.8979 | 93.9978 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 45.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 91.5 deg**  **m** | **Freeboard at 93.0 deg**  **m** | **Freeboard at 93.1 deg**  **m** | **Freeboard at 93.2 deg**  **m** | **Freeboard at 93.3 deg**  **m** | **Freeboard at 93.4 deg**  **m** | **Freeboard at 93.5 deg**  **m** | **Freeboard at 93.6 deg**  **m** | **Freeboard at 93.7 deg**  **m** | **Freeboard at 93.8 deg**  **m** | **Freeboard at 93.9 deg**  **m** | **Freeboard at 94.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 41.7 | n/a | 0.234 | -0.071 | -0.638 | -0.655 | -0.671 | -0.672 | -0.673 | -0.674 | -0.675 | -0.676 | -0.678 | -0.679 | -0.680 | -0.681 | -0.682 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.5 | n/a | 0.310 | -0.012 | -0.635 | -0.654 | -0.672 | -0.673 | -0.674 | -0.675 | -0.676 | -0.678 | -0.679 | -0.680 | -0.681 | -0.682 | -0.683 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **30.0** | **60.0** | **61.0** | **62.0** | **63.0** | **64.0** | **65.0** | **66.0** | **67.0** | **68.0** | **69.0** | **70.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.230 | 0.254 | 0.254 | 0.254 | 0.254 | 0.254 | 0.255 | 0.255 | 0.255 | 0.254 | 0.252 | 0.249 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 3.7070 | 10.9739 | 11.2281 | 11.4826 | 11.7370 | 11.9914 | 12.2461 | 12.5014 | 12.7566 | 13.0111 | 13.2639 | 13.5143 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.474 | -0.597 | -0.672 | -0.753 | -0.840 | -0.933 | -1.034 | -1.145 | -1.265 | -1.395 | -1.537 | -1.693 |
| Draft at AP m | 0.735 | 0.474 | -0.597 | -0.672 | -0.753 | -0.840 | -0.933 | -1.034 | -1.145 | -1.265 | -1.395 | -1.537 | -1.693 |
| WL Length m | 8.121 | 8.781 | 8.927 | 8.918 | 8.907 | 8.895 | 8.882 | 8.867 | 8.852 | 8.835 | 8.819 | 8.803 | 8.794 |
| Beam max extents on WL m | 3.416 | 2.736 | 2.921 | 2.913 | 2.906 | 2.902 | 2.899 | 2.898 | 2.901 | 2.883 | 2.844 | 2.782 | 2.786 |
| Wetted Area m^2 | 26.871 | 24.903 | 26.017 | 26.039 | 26.071 | 26.112 | 26.161 | 26.497 | 26.539 | 26.621 | 27.077 | 27.332 | 27.616 |
| Waterpl. Area m^2 | 23.286 | 20.137 | 20.527 | 20.481 | 20.451 | 20.434 | 20.432 | 20.724 | 20.721 | 20.540 | 20.152 | 19.989 | 19.750 |
| Prismatic coeff. (Cp) | 0.790 | 0.721 | 0.701 | 0.702 | 0.703 | 0.704 | 0.705 | 0.706 | 0.707 | 0.709 | 0.711 | 0.713 | 0.715 |
| Block coeff. (Cb) | 0.410 | 0.511 | 0.347 | 0.349 | 0.352 | 0.354 | 0.357 | 0.360 | 0.363 | 0.369 | 0.378 | 0.390 | 0.394 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.406 | 4.412 | 4.411 | 4.411 | 4.410 | 4.409 | 4.408 | 4.407 | 4.406 | 4.404 | 4.403 | 4.402 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.600 | 4.766 | 4.764 | 4.763 | 4.762 | 4.759 | 4.809 | 4.799 | 4.792 | 4.781 | 4.761 | 4.750 |
| Max deck inclination deg | 0.2578 | 30.0061 | 60.0035 | 61.0031 | 62.0027 | 63.0023 | 64.0020 | 65.0016 | 66.0014 | 67.0011 | 68.0009 | 69.0007 | 70.0005 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 30.0 deg**  **m** | **Freeboard at 60.0 deg**  **m** | **Freeboard at 61.0 deg**  **m** | **Freeboard at 62.0 deg**  **m** | **Freeboard at 63.0 deg**  **m** | **Freeboard at 64.0 deg**  **m** | **Freeboard at 65.0 deg**  **m** | **Freeboard at 66.0 deg**  **m** | **Freeboard at 67.0 deg**  **m** | **Freeboard at 68.0 deg**  **m** | **Freeboard at 69.0 deg**  **m** | **Freeboard at 70.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 42.6 | n/a | 0.234 | 0.203 | -0.282 | -0.293 | -0.304 | -0.314 | -0.324 | -0.334 | -0.343 | -0.351 | -0.360 | -0.368 | -0.376 |
| Deck Edge (immersion pos = 0.524 m) |  | 46.1 | n/a | 0.310 | 0.273 | -0.237 | -0.249 | -0.261 | -0.273 | -0.284 | -0.295 | -0.305 | -0.314 | -0.324 | -0.334 | -0.343 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **10.0** | **20.0** | **30.0** | **40.0** | **50.0** | **60.0** | **61.0** | **62.0** | **63.0** | **64.0** | **65.0** | **66.0** | **67.0** | **68.0** | **69.0** | **70.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.165 | 0.221 | 0.230 | 0.225 | 0.236 | 0.254 | 0.254 | 0.254 | 0.254 | 0.254 | 0.255 | 0.255 | 0.255 | 0.254 | 0.252 | 0.249 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 0.9088 | 2.8367 | 5.0913 | 7.3684 | 9.6761 | 12.1290 | 12.3833 | 12.6377 | 12.8922 | 13.1465 | 13.4013 | 13.6565 | 13.9117 | 14.1662 | 14.4190 | 14.6695 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.707 | 0.621 | 0.474 | 0.263 | -0.051 | -0.597 | -0.672 | -0.753 | -0.840 | -0.933 | -1.034 | -1.145 | -1.265 | -1.395 | -1.537 | -1.693 |
| Draft at AP m | 0.735 | 0.707 | 0.621 | 0.474 | 0.263 | -0.051 | -0.597 | -0.672 | -0.753 | -0.840 | -0.933 | -1.034 | -1.145 | -1.265 | -1.395 | -1.537 | -1.693 |
| WL Length m | 8.121 | 8.936 | 8.907 | 8.781 | 8.837 | 8.938 | 8.927 | 8.918 | 8.907 | 8.895 | 8.882 | 8.867 | 8.852 | 8.835 | 8.819 | 8.803 | 8.794 |
| Beam max extents on WL m | 3.416 | 3.087 | 2.842 | 2.736 | 2.751 | 2.921 | 2.921 | 2.913 | 2.906 | 2.902 | 2.899 | 2.898 | 2.901 | 2.883 | 2.844 | 2.782 | 2.786 |
| Wetted Area m^2 | 26.871 | 25.569 | 25.107 | 24.903 | 25.374 | 25.937 | 26.017 | 26.039 | 26.071 | 26.112 | 26.161 | 26.497 | 26.539 | 26.621 | 27.077 | 27.332 | 27.616 |
| Waterpl. Area m^2 | 23.286 | 21.765 | 20.649 | 20.137 | 20.454 | 21.042 | 20.527 | 20.481 | 20.451 | 20.434 | 20.432 | 20.724 | 20.721 | 20.540 | 20.152 | 19.989 | 19.750 |
| Prismatic coeff. (Cp) | 0.790 | 0.711 | 0.713 | 0.721 | 0.714 | 0.700 | 0.701 | 0.702 | 0.703 | 0.704 | 0.705 | 0.706 | 0.707 | 0.709 | 0.711 | 0.713 | 0.715 |
| Block coeff. (Cb) | 0.410 | 0.436 | 0.549 | 0.511 | 0.421 | 0.354 | 0.347 | 0.349 | 0.352 | 0.354 | 0.357 | 0.360 | 0.363 | 0.369 | 0.378 | 0.390 | 0.394 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.397 | 4.400 | 4.406 | 4.411 | 4.413 | 4.412 | 4.411 | 4.411 | 4.410 | 4.409 | 4.408 | 4.407 | 4.406 | 4.404 | 4.403 | 4.402 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.468 | 4.479 | 4.600 | 4.666 | 4.682 | 4.766 | 4.764 | 4.763 | 4.762 | 4.759 | 4.809 | 4.799 | 4.792 | 4.781 | 4.761 | 4.750 |
| Max deck inclination deg | 0.2578 | 10.0028 | 20.0033 | 30.0061 | 40.0073 | 50.0061 | 60.0035 | 61.0031 | 62.0027 | 63.0023 | 64.0020 | 65.0016 | 66.0014 | 67.0011 | 68.0009 | 69.0007 | 70.0005 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 10.0 deg**  **m** | **Freeboard at 20.0 deg**  **m** | **Freeboard at 30.0 deg**  **m** | **Freeboard at 40.0 deg**  **m** | **Freeboard at 50.0 deg**  **m** | **Freeboard at 60.0 deg**  **m** | **Freeboard at 61.0 deg**  **m** | **Freeboard at 62.0 deg**  **m** | **Freeboard at 63.0 deg**  **m** | **Freeboard at 64.0 deg**  **m** | **Freeboard at 65.0 deg**  **m** | **Freeboard at 66.0 deg**  **m** | **Freeboard at 67.0 deg**  **m** | **Freeboard at 68.0 deg**  **m** | **Freeboard at 69.0 deg**  **m** | **Freeboard at 70.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 41 | n/a | 0.234 | 0.258 | 0.327 | 0.203 | 0.016 | -0.152 | -0.282 | -0.293 | -0.304 | -0.314 | -0.324 | -0.334 | -0.343 | -0.351 | -0.360 | -0.368 | -0.376 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.5 | n/a | 0.310 | 0.333 | 0.398 | 0.273 | 0.079 | -0.097 | -0.237 | -0.249 | -0.261 | -0.273 | -0.284 | -0.295 | -0.305 | -0.314 | -0.324 | -0.334 | -0.343 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.000 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | -0.017 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Starboard**  **deg** | **0.0** | **5.0** | **10.0** | **15.0** | **20.0** | **25.0** | **30.0** | **35.0** | **40.0** | **45.0** | **50.0** | **55.0** | **60.0** | **65.0** | **70.0** | **75.0** | **80.0** | **85.0** | **90.0** | **95.0** | **100.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.017 | 0.098 | 0.165 | 0.200 | 0.221 | 0.229 | 0.230 | 0.228 | 0.225 | 0.228 | 0.236 | 0.249 | 0.254 | 0.255 | 0.249 | 0.224 | 0.178 | 0.120 | 0.055 | -0.016 | -0.089 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 0.2898 | 0.9591 | 1.8807 | 2.9356 | 4.0645 | 5.2155 | 6.3613 | 7.4918 | 8.6208 | 9.7782 | 10.9928 | 12.2533 | 13.5280 | 14.7941 | 15.9860 | 16.9974 | 17.7458 | 18.1857 | 18.2856 | 18.0255 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.709 | 0.707 | 0.670 | 0.621 | 0.556 | 0.474 | 0.376 | 0.263 | 0.123 | -0.051 | -0.284 | -0.597 | -1.034 | -1.693 | -2.751 | -4.792 | -10.820 | n/a | -13.096 | -7.079 |
| Draft at AP m | 0.735 | 0.709 | 0.707 | 0.670 | 0.621 | 0.556 | 0.474 | 0.376 | 0.263 | 0.123 | -0.051 | -0.284 | -0.597 | -1.034 | -1.693 | -2.751 | -4.792 | -10.820 | n/a | -13.096 | -7.079 |
| WL Length m | 8.121 | 8.151 | 8.936 | 8.947 | 8.907 | 8.851 | 8.781 | 8.752 | 8.837 | 8.899 | 8.938 | 8.953 | 8.927 | 8.867 | 8.794 | 8.921 | 9.071 | 9.181 | 9.268 | 9.335 | 9.394 |
| Beam max extents on WL m | 3.416 | 3.269 | 3.087 | 2.945 | 2.842 | 2.774 | 2.736 | 2.726 | 2.751 | 2.813 | 2.921 | 2.986 | 2.921 | 2.898 | 2.786 | 2.692 | 2.430 | 2.341 | 2.274 | 2.231 | 2.206 |
| Wetted Area m^2 | 26.871 | 26.980 | 25.569 | 25.357 | 25.107 | 24.997 | 24.903 | 24.964 | 25.374 | 25.573 | 25.937 | 25.945 | 26.017 | 26.498 | 27.616 | 28.302 | 28.406 | 28.373 | 28.257 | 28.211 | 28.094 |
| Waterpl. Area m^2 | 23.286 | 23.066 | 21.765 | 21.174 | 20.649 | 20.363 | 20.137 | 20.147 | 20.454 | 20.639 | 21.042 | 20.835 | 20.527 | 20.724 | 19.750 | 18.250 | 17.378 | 16.811 | 16.349 | 16.026 | 15.714 |
| Prismatic coeff. (Cp) | 0.790 | 0.791 | 0.711 | 0.710 | 0.713 | 0.717 | 0.721 | 0.722 | 0.714 | 0.706 | 0.700 | 0.699 | 0.701 | 0.706 | 0.715 | 0.711 | 0.703 | 0.698 | 0.696 | 0.695 | 0.694 |
| Block coeff. (Cb) | 0.410 | 0.432 | 0.436 | 0.485 | 0.549 | 0.572 | 0.511 | 0.464 | 0.421 | 0.385 | 0.354 | 0.338 | 0.347 | 0.360 | 0.394 | 0.424 | 0.493 | 0.548 | 0.615 | 0.603 | 0.543 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.401 | 4.397 | 4.398 | 4.400 | 4.403 | 4.406 | 4.409 | 4.411 | 4.413 | 4.413 | 4.414 | 4.412 | 4.408 | 4.402 | 4.394 | 4.382 | 4.369 | 4.355 | 4.341 | 4.326 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.374 | 4.468 | 4.479 | 4.479 | 4.581 | 4.600 | 4.614 | 4.666 | 4.643 | 4.682 | 4.750 | 4.766 | 4.809 | 4.750 | 4.781 | 4.842 | 4.842 | 4.828 | 4.807 | 4.752 |
| Max deck inclination deg | 0.2578 | 5.0192 | 10.0028 | 15.0029 | 20.0033 | 25.0045 | 30.0061 | 35.0074 | 40.0073 | 45.0070 | 50.0061 | 55.0053 | 60.0035 | 65.0016 | 70.0005 | 75.0000 | 80.0002 | 85.0006 | 90.0000 | 94.9969 | 99.9898 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 5.0 deg**  **m** | **Freeboard at 10.0 deg**  **m** | **Freeboard at 15.0 deg**  **m** | **Freeboard at 20.0 deg**  **m** | **Freeboard at 25.0 deg**  **m** | **Freeboard at 30.0 deg**  **m** | **Freeboard at 35.0 deg**  **m** | **Freeboard at 40.0 deg**  **m** | **Freeboard at 45.0 deg**  **m** | **Freeboard at 50.0 deg**  **m** | **Freeboard at 55.0 deg**  **m** | **Freeboard at 60.0 deg**  **m** | **Freeboard at 65.0 deg**  **m** | **Freeboard at 70.0 deg**  **m** | **Freeboard at 75.0 deg**  **m** | **Freeboard at 80.0 deg**  **m** | **Freeboard at 85.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 95.0 deg**  **m** | **Freeboard at 100.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 40.9 | n/a | 0.234 | 0.259 | 0.258 | 0.289 | 0.327 | 0.302 | 0.203 | 0.109 | 0.016 | -0.071 | -0.152 | -0.222 | -0.282 | -0.334 | -0.376 | -0.441 | -0.512 | -0.578 | -0.638 | -0.692 | -0.763 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.4 | n/a | 0.310 | 0.335 | 0.333 | 0.362 | 0.398 | 0.374 | 0.273 | 0.175 | 0.079 | -0.012 | -0.097 | -0.172 | -0.237 | -0.295 | -0.343 | -0.418 | -0.495 | -0.568 | -0.635 | -0.695 | -0.775 |

### Equilibrium calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.900 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | 0.059 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |

|  |  |
| --- | --- |
| Draft Amidships m | 0.719 |
| Displacement t | 8.938 |
| Heel deg | 3.5 |
| Draft at FP m | 0.719 |
| Draft at AP m | 0.719 |
| Draft at LCF m | 0.748 |
| Trim (+ve by stern) m | 0.000 |
| WL Length m | 8.143 |
| Beam max extents on WL m | 3.342 |
| Wetted Area m^2 | 27.151 |
| Waterpl. Area m^2 | 23.351 |
| Prismatic coeff. (Cp) | 0.790 |
| Block coeff. (Cb) | 0.420 |
| Max Sect. area coeff. (Cm) | 0.545 |
| Waterpl. area coeff. (Cwp) | 0.858 |
| LCB from zero pt. (+ve fwd) m | 4.400 |
| LCF from zero pt. (+ve fwd) m | 4.367 |
| KB m | 0.513 |
| KG fluid m | 1.662 |
| BMt m | 2.067 |
| BML m | 12.572 |
| GMt corrected m | 0.916 |
| GML m | 11.421 |
| KMt m | 2.576 |
| KML m | 13.061 |
| Immersion (TPc) tonne/cm | 0.239 |
| MTc tonne.m | 0.000 |
| RM at 1deg = GMt.Disp.sin(1) tonne.m | 0.143 |
| Max deck inclination deg | 3.4758 |
| Trim angle (+ve by stern) deg | 0.0000 |

| **Key point** | **Type** | **Freeboard**  **m** |
| --- | --- | --- |
| Margin Line (freeboard pos = 0.001 m) |  | 0.25 |
| Deck Edge (freeboard pos = 0.001 m) |  | 0.326 |

### Stability calculation - Success.Specific.conditions

Stability 23.05.00.139, build: 139

Model file: C:\Users\guilh\OneDrive - Universidade de Lisboa\Documentos\Success.Specific.conditions (Medium precision, 22 sections, Trimming off, Skin thickness not applied). Long. datum: AP; Vert. datum: Baseline. Analysis tolerance - ideal(worst case): Disp.%: 0.01000(0.100); Trim%(LCG-TCG): 0.01000(0.100); Heel%(LCG-TCG): 0.01000(0.100)

Loadcase - Loadcase 1

Damage Case - Intact

Free to Trim

Specific gravity = 1.025; (Density = 1.025 tonne/m^3)

Fluid analysis method: Use corrected VCG

| **Item Name** | **Quantity** | **Unit Mass**  **tonne** | **Total Mass**  **tonne** | **Unit Volume**  **m^3** | **Total Volume**  **m^3** | **Long. Arm**  **m** | **Trans. Arm**  **m** | **Vert. Arm**  **m** | **Total FSM**  **tonne.m** | **FSM Type** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lightship | 1 | 7.012 | 7.012 |  |  | 4.459 | 0.001 | 1.466 | 0.000 | User Specified |
| Fuel tank | 1 | 0.476 | 0.476 |  |  | 4.047 | -0.329 | 0.841 | 0.000 | User Specified |
| FW | 1 | 0.400 | 0.400 |  |  | 6.729 | 0.000 | 0.520 | 0.000 | User Specified |
| Sewage | 0 | 0.400 | 0.000 |  |  | 4.910 | 0.000 | 0.520 | 0.000 | User Specified |
| People | 10 | 0.075 | 0.750 |  |  | 2.770 | 0.900 | 4.858 | 0.000 | User Specified |
| Personal belongings | 5 | 0.030 | 0.150 |  |  | 6.015 | 0.000 | 0.702 | 0.000 | User Specified |
| Personal | 5 | 0.030 | 0.150 |  |  | 2.623 | 0.000 | 1.440 | 0.000 | User Specified |
| Total Loadcase |  |  | 8.938 | 0.000 | 0.000 | 4.392 | 0.059 | 1.662 | 0.000 |  |
| FS correction |  |  |  |  |  |  |  | 0.000 |  |  |
| VCG fluid |  |  |  |  |  |  |  | 1.662 |  |  |



| **Heel to Port**  **deg** | **0.0** | **5.0** | **10.0** | **15.0** | **20.0** | **25.0** | **30.0** | **35.0** | **40.0** | **45.0** | **50.0** | **55.0** | **60.0** | **65.0** | **70.0** | **75.0** | **80.0** | **85.0** | **90.0** | **95.0** | **100.0** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GZ m | 0.059 | 0.140 | 0.206 | 0.240 | 0.260 | 0.267 | 0.267 | 0.262 | 0.257 | 0.257 | 0.263 | 0.273 | 0.275 | 0.273 | 0.263 | 0.235 | 0.185 | 0.124 | 0.055 | -0.019 | -0.096 |
| Area under GZ curve from zero heel m.deg | 0.0000 | 0.4991 | 1.3761 | 2.5023 | 3.7569 | 5.0793 | 6.4159 | 7.7382 | 9.0347 | 10.3180 | 11.6166 | 12.9584 | 14.3313 | 15.7026 | 17.0488 | 18.3037 | 19.3603 | 20.1358 | 20.5844 | 20.6744 | 20.3865 |
| Displacement t | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 | 8.938 |
| Draft at FP m | 0.735 | 0.709 | 0.707 | 0.670 | 0.621 | 0.556 | 0.474 | 0.376 | 0.262 | 0.123 | -0.051 | -0.285 | -0.598 | -1.035 | -1.693 | -2.751 | -4.791 | -10.816 | n/a | -13.085 | -7.073 |
| Draft at AP m | 0.735 | 0.709 | 0.707 | 0.670 | 0.621 | 0.556 | 0.474 | 0.376 | 0.262 | 0.123 | -0.051 | -0.285 | -0.598 | -1.035 | -1.693 | -2.751 | -4.791 | -10.816 | n/a | -13.085 | -7.073 |
| WL Length m | 8.121 | 8.151 | 8.936 | 8.947 | 8.907 | 8.851 | 8.781 | 8.752 | 8.838 | 8.900 | 8.938 | 8.953 | 8.928 | 8.867 | 8.794 | 8.921 | 9.071 | 9.180 | 9.267 | 9.334 | 9.392 |
| Beam max extents on WL m | 3.416 | 3.269 | 3.087 | 2.945 | 2.842 | 2.774 | 2.736 | 2.726 | 2.751 | 2.813 | 2.921 | 2.986 | 2.922 | 2.899 | 2.786 | 2.692 | 2.430 | 2.341 | 2.274 | 2.231 | 2.206 |
| Wetted Area m^2 | 26.871 | 26.980 | 25.569 | 25.357 | 25.107 | 24.997 | 24.903 | 24.964 | 25.373 | 25.572 | 25.935 | 25.945 | 26.017 | 26.498 | 27.615 | 28.302 | 28.407 | 28.373 | 28.256 | 28.202 | 28.182 |
| Waterpl. Area m^2 | 23.286 | 23.066 | 21.765 | 21.174 | 20.648 | 20.363 | 20.137 | 20.147 | 20.454 | 20.639 | 21.042 | 20.837 | 20.529 | 20.725 | 19.751 | 18.250 | 17.378 | 16.810 | 16.347 | 16.033 | 15.791 |
| Prismatic coeff. (Cp) | 0.790 | 0.791 | 0.711 | 0.710 | 0.713 | 0.717 | 0.721 | 0.722 | 0.714 | 0.706 | 0.700 | 0.699 | 0.701 | 0.706 | 0.715 | 0.711 | 0.703 | 0.699 | 0.696 | 0.696 | 0.694 |
| Block coeff. (Cb) | 0.410 | 0.432 | 0.436 | 0.485 | 0.549 | 0.572 | 0.511 | 0.464 | 0.421 | 0.385 | 0.354 | 0.338 | 0.347 | 0.360 | 0.394 | 0.424 | 0.493 | 0.548 | 0.615 | 0.603 | 0.543 |
| LCB from zero pt. (+ve fwd) m | 4.397 | 4.401 | 4.397 | 4.398 | 4.400 | 4.403 | 4.406 | 4.409 | 4.411 | 4.413 | 4.414 | 4.415 | 4.413 | 4.408 | 4.402 | 4.394 | 4.382 | 4.368 | 4.354 | 4.339 | 4.324 |
| LCF from zero pt. (+ve fwd) m | 4.371 | 4.374 | 4.468 | 4.479 | 4.479 | 4.581 | 4.600 | 4.614 | 4.666 | 4.643 | 4.682 | 4.750 | 4.766 | 4.809 | 4.751 | 4.782 | 4.842 | 4.841 | 4.827 | 4.809 | 4.773 |
| Max deck inclination deg | 0.2578 | 5.0192 | 10.0028 | 15.0029 | 20.0033 | 25.0045 | 30.0062 | 35.0074 | 40.0074 | 45.0070 | 50.0062 | 55.0053 | 60.0035 | 65.0017 | 70.0005 | 75.0000 | 80.0002 | 85.0006 | 90.0000 | 94.9969 | 99.9897 |
| Trim angle (+ve by stern) deg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | n/a | 0.0000 | 0.0000 |

| **Key point** | **Type** | **Immersion angle**  **deg** | **Emergence angle**  **deg** | **Freeboard at 0.0 deg**  **m** | **Freeboard at 5.0 deg**  **m** | **Freeboard at 10.0 deg**  **m** | **Freeboard at 15.0 deg**  **m** | **Freeboard at 20.0 deg**  **m** | **Freeboard at 25.0 deg**  **m** | **Freeboard at 30.0 deg**  **m** | **Freeboard at 35.0 deg**  **m** | **Freeboard at 40.0 deg**  **m** | **Freeboard at 45.0 deg**  **m** | **Freeboard at 50.0 deg**  **m** | **Freeboard at 55.0 deg**  **m** | **Freeboard at 60.0 deg**  **m** | **Freeboard at 65.0 deg**  **m** | **Freeboard at 70.0 deg**  **m** | **Freeboard at 75.0 deg**  **m** | **Freeboard at 80.0 deg**  **m** | **Freeboard at 85.0 deg**  **m** | **Freeboard at 90.0 deg**  **m** | **Freeboard at 95.0 deg**  **m** | **Freeboard at 100.0 deg**  **m** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Margin Line (immersion pos = 0.524 m) |  | 40.9 | n/a | 0.234 | 0.259 | 0.258 | 0.289 | 0.327 | 0.302 | 0.203 | 0.109 | 0.016 | -0.071 | -0.152 | -0.221 | -0.282 | -0.334 | -0.376 | -0.441 | -0.512 | -0.578 | -0.638 | -0.692 | -0.764 |
| Deck Edge (immersion pos = 0.524 m) |  | 44.4 | n/a | 0.310 | 0.335 | 0.333 | 0.362 | 0.399 | 0.374 | 0.273 | 0.175 | 0.080 | -0.012 | -0.097 | -0.171 | -0.237 | -0.295 | -0.343 | -0.418 | -0.495 | -0.568 | -0.635 | -0.695 | -0.776 |