# Trim Calculation

## For No Load Condition:

LCG = -2.69 m = 2.69 m aft

Half Length = 36.87 m

Displacement = 638.349 m3

LCB = -.11m

LCF = -.17 m

MCT 1cm = 52.97 ton-m/cm

WF = 36.87 -.17 = 36.7m

 FL = 36.87+ .17 =37.07 m

Change of Trim,

= 0..311 m



Change in draught at aft perpendicular,

= 0.155 m



Change in draught at fore perpendicular,

= 0.156 m

|  |  |  |  |
| --- | --- | --- | --- |
| **Final Draft of Vessel at No Load Condition** | | | |
|  | **Draft (aft)** | **Draft (fore)** | **Comment** |
| Mean Draft (m) | 1.1 | 1.1 | Trim by Stern |
| Change in Draft (m) | 0.155 | 0.156 |
| **Final Draft (m)** | **1.255** | **.944** |

## For Full Load Condition:

LCG = 1.76 m = 1.76m (fore)

Half Length = 36.87 m

Displacement = 2659 m3

LCB = -.43 m

LCF = -1.33 m

MCT 1cm = 57.23 ton-m/cm

WF = 36.87 – 1.33 = 35.54 m

 FL = 36.87 + 1.33 = 38.2 m

Change of Trim,

= .622 m



Change in draught at aft perpendicular,

= 0.3 m



Change in draught at fore perpendicular,

= 0.322 m

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| **Final Draft of Vessel at full Load Condition** | | | |
|  | **Draft (aft)** | **Draft (fore)** | **Comment** |
| Mean Draft (m) | 4.4 | 4.4 | Trim by Stern |
| Change in Draft (m) | 0.3 | 0.322 |
| **Final Draft (m)** | **4.7** | **4.078** |