

## **INCLINING EXPERIMENT REPORT**

Marine Safety (Domestic Commercial Vessel) National Law Act 2012 Marine Order 503 (Certificates of survey – national law) 2017

This checklist is for use by accredited surveyors whilst witnessing an inclining experiment for a domestic commercial vessel. The completed report should be retained by the accredited surveyor for their records. It is not intended to be provided to the owner of the vessel.

the vessel.		
A. Vessel details		
Vessel name	Unique identifier	Service category
Owner of vessel		
Builder of vessel	Purpose of inclining meas	urement
		d Vessel  ☐Change of Class  ☐Other
Measured length $L_m$ (metres)	Breadth <i>B</i> (metres)	
nclining experiment location	Da	ate of inclining
B. Weather and mooring		
State of weather	Mooring arrangements	
C. Persons present at inclining		
Name of person conducting the inclining		
Name of surveyor witnessing the inclining	Surveyor identification nur	mber
Company or trading name		
D. Details of inclining weight and ball	ast weight	
Number of mass groups used for inclining	Each group of mass is ma	ade up of:
E. Sketch (details of inclining weight, ballast weig	ht, inclining party etc.):	
Centreline		
		,

## F. Correction of weights

tems <b>noted</b> on board the ve	ssel during inclining (Items	of significant weight, e.g.	. anchors, life raft, trawl boards, ballast, et	:c):

Item description	Mass (tonnes)	Location

Items to be **added** to the vessel after the inclining to arrive at lightship (description, weight & location):

Item description	Mass (tonnes)	Location

Items to be **removed** from the vessel after the inclining to arrive at lightship (description, weight & location):

Item description	Mass (tonnes)	Location

Items to be moved after the inclining to arrive at lightship LCG and VCG (description, weight & movement required):

Item description	Mass (tonnes)	Location	Movement Required

## $\textbf{G. Tank contents} \ (\text{eg. fuel, water, sullage, lube oil etc.})$

All crossover valves are closed and secured?	Name So	Sounding Ullage (pl filler leng (b)	olus gth) Depth (c)	Filler pipe Length (d)	
All crossover valves are closed and secured? All bilges are dry?  H. Sketch tanks & watertight bulkheads					<u> </u>
All crossover valves are closed and secured? All bilges are dry?  H. Sketch tanks & watertight bulkheads					
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All bilges are dry?  H. Sketch tanks & watertight bulkheads					, <del>*</del>
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All bilges are dry?  H. Sketch tanks & watertight bulkheads					
		sed and secured?			☐ Yes ☐ No ☐ Yes ☐ No
Centreline	tanks & watertiç	tertight bulkheads			
Centreline					
Centreline					
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	ntreline				

## I. Inclining weight movement

Pendulum length: mm.

Movement	Mass Group	Direction moved P -> S or S->P	Incline Mass (t)	Distance moved (m)	Heeling Moment $(m) = (w) \times (d)$	Pendulum reading m (+,-)	Pendulum deflection (m)	$\frac{w \times d}{x}$ $=$ $x_z$	Running Average	Running Deviation	Deviation from Final Average
0											
1											
2											
3											
4											
5											
6											
7											
8											
						Final sun	Ar .				
						Final ave	rage 🌇 💆				

J. Draft mark reading Draft marks on vessel: ☐ Yes ☐ No								
Af	ft	Mi	dships	For	ward			
Port:		Port:		Port:				
Stbd:		Stbd:		Stbd:				
On the diagram below, sket	tch the location of the draft r	marks. If freeboards are me	asured, indicate on the diagram,	where they are taken along the	length of the vessel.			
K. Specific gravity of	water							
San	nple 1		Sample 2	Sam	ple 3			
I declare that I have conducted from the inspections carried or	d a survey of the above mention ut, am satisfied that the vessel	ned vessel in accordance with meets these standards.	the applicable standards and condit	ions as set out in Marine Order 503	and that to the extent evident			
Name of surveyor:		Signature of surveyor:						
Date of completion:		Surveyor identification r	number:					