

18 FEB 1932

Index. No. 25410.
(For London Office only.)

Rpt. C.11.

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for ~~Steamer, Sailing Ship, Tanker~~
having Shelter deck (no tonnage opening)
(Type of Superstructures.)

Port of Survey Newcastle-on-Tyne

Date of Survey 17th Feb. 1932

Name of Surveyor J. Macdonald

Particulars of Classification 1100 A1
Shelter deck
with freeboard

Ship's Name CADILLAC Nationality and Port of Registry British
Newcastle Official Number 140703 Gross Tonnage 12062 Date of Build 1917-12

Moulded Dimensions: Length 529.50 Breadth 66.15 Depth 34.0 292.00
Moulded displacement at moulded draught = 85 per cent. of moulded depth 23030 tons
Coefficient of fineness for use with Tables .816

Depth for Freeboard (D)

Moulded depth 42.06

Stringer plate08

Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$

Depth for Freeboard (D) = 42.14

Depth correction

(a) Where D is greater than Table depth
 $(D - \text{Table depth}) R =$
 $(42.14 - 35.30) \times 3 = +20.52$

(b) Where D is less than Table depth (if allowed)
 $(\text{Table depth} - D) R =$

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B) 66.15

Standard Round of Beam = $\frac{B \times 12}{50} =$ 15.88

Ship's Round of Beam = 16.25

Difference .37

Restricted to

Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.37}{4} \times 1 = .09$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Trunk enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required)

Deduction =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	62.95	1		62.95	36.0	36.00	1		36.00
$\frac{1}{2}$ L from A.P.	28.01	4		112.04	15.8	15.80	4		63.20
$\frac{3}{4}$ L "	6.92	2		13.84	3.95	3.95	2		7.90
Amidships	-	4		-	-	-	4		-
$\frac{3}{4}$ L from F.P.	13.85	2		27.70	9.75	9.77	2		19.54
$\frac{1}{2}$ L "	56.02	4		224.08	39.1	39.10	4		156.40
F.P.	125.90	1		125.90	90.0	90.00	1		90.00
Total				566.51					373.04

Mean actual sheer aft = Deficient
Mean standard sheer aft

Mean actual sheer forward = Deficient
Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{193.47}{18} (.75 - 0) = +8.06$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 42.14 Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.816 + .68}{1.36} = \frac{1.496}{1.36}$

	+	-
Depth Correction	20.52	-
Deduction for superstructures	-	-
Sheer correction	8.06	-
Round of Beam correction	-	.09
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
28.58	.09	+28.49

Summer Freeboard = 159.06

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	
Fresh Water Line " "	
Tropical Line " "	
Winter Line below " "	
Winter North Atlantic Line " "	

Tropical Fresh Water Freeboard	
Fresh Water " "	
Tropical " "	
Winter " "	
Winter North Atlantic " "	

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HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Particulars of siddle, funnel and ventilator coamings:— Stokhold gratings covered by strong steel hinged covers.
Siddle funnel ventilators in efficient condition. Engine skylight of steel strongly constructed.

Particulars of Companionways — One steel companion 7'-0" x 5'-9" x 7'-0" on shelter deck leading to crew space forward } doors
One " " ~~3'-6" x 7'-6" x 7'-0"~~ high on " " " " " " }
~~of light frame wood~~ with 18" sills, doors operated from both sides.
One steel house 25'-0" x 21'-0" x 7'-6" high leading to steering gear, door of steel with 18" sill, door operated from both sides
Two entrances 9'-6" x 20'-0" x 6'-9" " " " pump rooms, steel w.t. doors " 16" ", doors " " " "
One steel companion 4'-0" x 2'-6" x 2'-3" " " " fore peak with w.t. steel plate cover.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

2	vents on shelter deck	9" dia.	coaming	36" x 25	and one 6" dia. coaming 36" x 25 led to new space store room
3	"	"	"	15" "	"
2	"	"	"	18" "	"
2	"	"	"	12" "	"
1	"	"	"	9" "	"
12	"	"	"	9" "	"
1	"	"	"	6" "	"

36" x 32 led to fore hold and tween decks. ✓

36" x 32 " " pump room. ✓ specially supported

36" x 32 " " bunker. ✓

36" x 25 " " after cabins ✓

36" x 25 " " store ✓

all ventilators are constructed in accordance with Rules & coverings closed with wood & ply beams.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

one goose-neck iron airpipe on shelter deck	32" high	2 1/2" diam	from fore peak
2 iron pipes	32"	2"	fore deep
2 goose-neck iron	42"	4"	with patent cap
	13"	3"	fore cofferdam
	15"	2 1/2"	double bottom tanks

Means of closing provided

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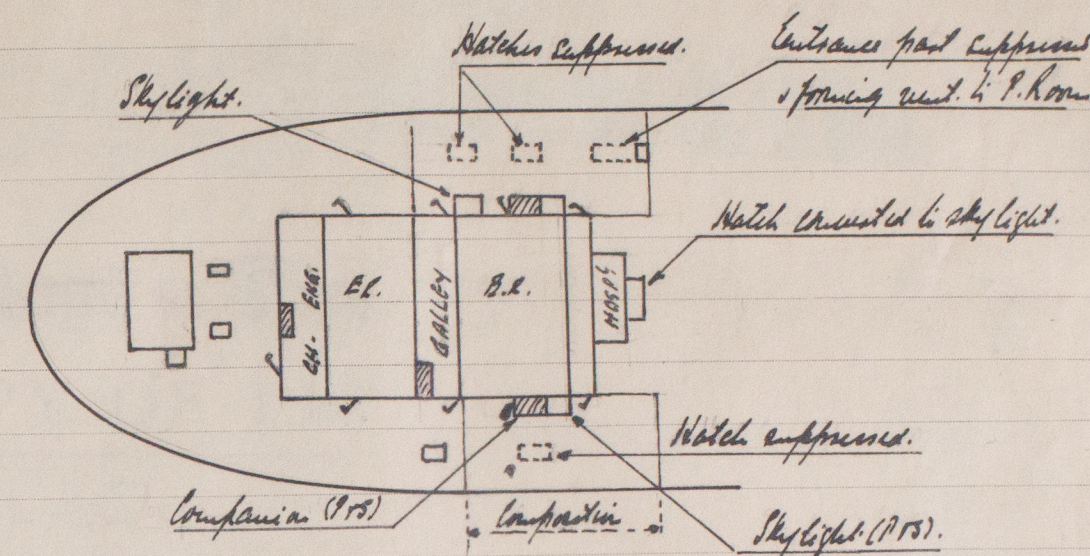
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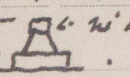
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Ship's Name CADILLAC

Official No. 140403

Memorandum of alterations reported since ship was surveyed for assignment of Load Lines



1. Hatch at fore end of hospital connected to steel skylight 2'6" x 5'0" with 4 steel plates with efficient fastenings.
2. 2P x 15. (16" x 16") steel hatch to T. 2nd engine room & deck in way plates over.
3. Hatch to stokehold (P) part suppressed & plated over, except fore end forming vent to pump room.

 Closed by wood plug & canvas cover.
4. House at aft end of casing extended to casing side (P.S.) & W.L. entrance doors to Eng. Room moved to port & starboard side of casing.
5. Companion fitted through steel house at aft end of casing. Door 2' solid H. wood secured by double handle spring lock. Lids 18".
6. Strong steel skin skylight constructed at (P.S.) side of casing to cover quarters with hinges steel plates efficiently fastened.
7. Two strong steel companions 6'9" x 2'6" constructed at (P.S.) side of casing to cover quarters. Door 2' solid H. wood secured by double handled spring locks. Lids 18".
8. 16 (P) & 9 (S) 6' dia. ventilators fitted to cover quarters. 30" x 30" & closed by wood plugs & canvas covers.
9. Additional sidelight fitted in Shellie T. 2nd of strong construction & fitted with hinges dead light.
10. Aft about (S) suppressed & doublehinged fitted over openings in shell & decks.
11. 1 W.L. & 1 scupper & W. Basin discharge from Lt. Engineer room led to screw down valves (non return) in Engine Room & operated at valves.
12. 1 W.L. discharge from crew quarters (P) in Shellie T. 2nd led to screw down non return valves in Tween decks operated at valves.
13. 3 Scuppers & wash basin discharges (P) led to ship's side in Boiler Room below upper deck with screw down non return valves secured to Shellie T. 2nd.
14. 1 Scupper & W. Basin & 1 W.L. discharge from Captain's bath room above Bridge led to stern valves in Shellie T. 2nd.

Copy plans on board.

4-9" dist. with li the new space forward have been suppressed.

The grass & nett tangles have been presented as under.
Gross 12061-59. Nett 4385-49.

A. Brown

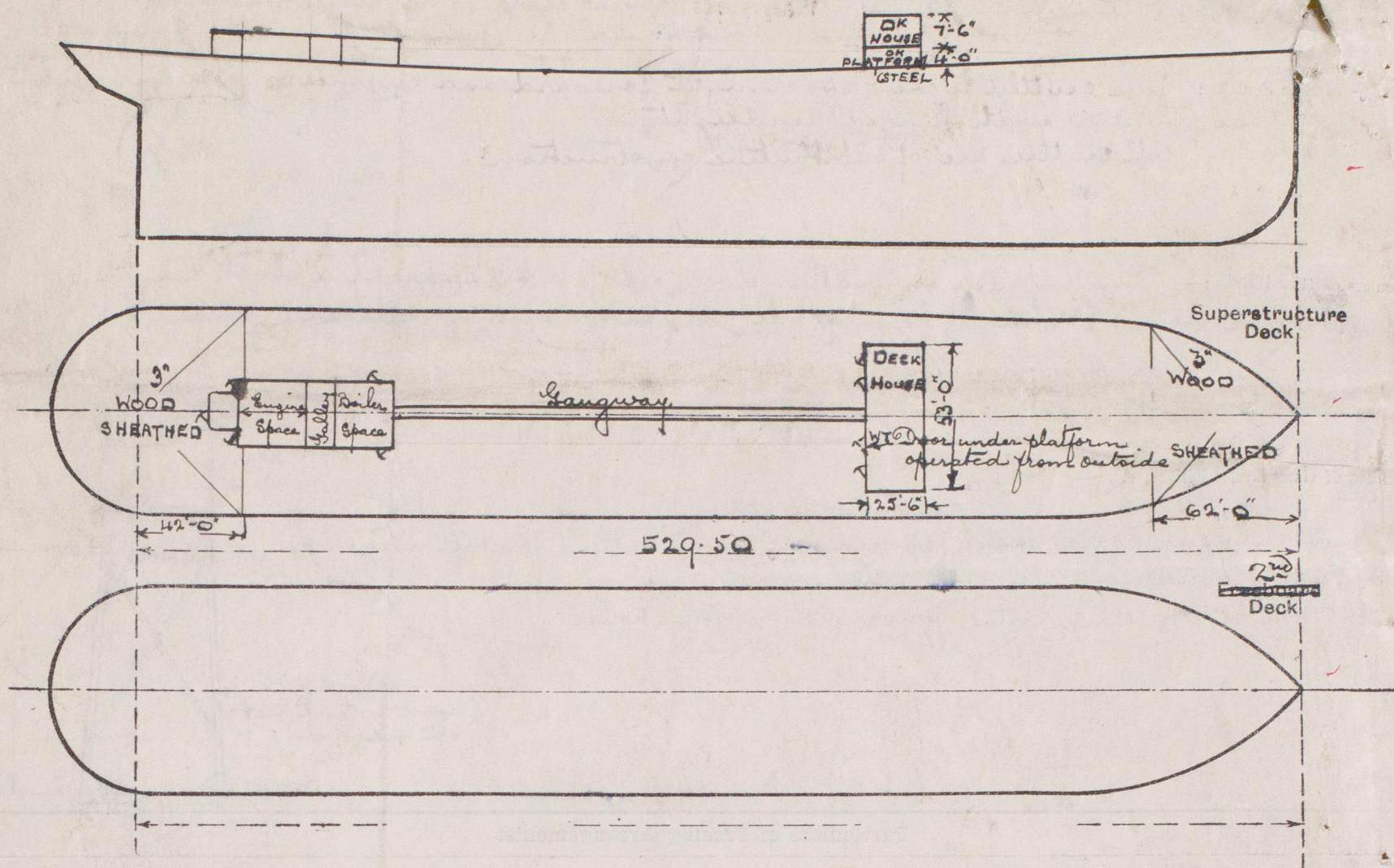
27. 6. 56:

W370-0038(213)

Lloyd's Register
Foundation

Cadillac

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



State any special features in the construction of the ship:

Shelter deck with no tonnage opening.

Extreme Displacement in salt water 29'-0" draught = 23305 tons
 28'-0" " = 22428 "
 27'-0" " = 21555 "
 Tons per inch " " 29'-0" " = 72.70 "
 28'-0" " = 72.48 "
 27'-0" " = 72.27 "

Summer draught = 30'-2 1/2"
 15 BK

F.W. 4 @ 30'-0" = 24187
 2.5 x 72.92 = 182
 4 @ 30'-2 1/2" = 24369

F.W allowance = $\frac{24369}{72.92 \times 40} = 8.35 = 8 \frac{1}{4}$

Builder's name and yard number

Palmers' Co. Ltd.

Names of sister ships

Owners

Anglo American Oil Co Ltd

Fee £

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Received by me

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