

## MIDSHIP SECTION.

DIMENSIONS :- 460' BP x 59'-0" BREADTH MLD. x 34'-0" DEPTH MLD.

SCALE :-  $\frac{1}{2}" = \text{ONE FOOT}$


TO CLASS LLOYDS 100 A1.  
CARRYING PETROLEUM IN BULK  
LONGITUDINAL FRAMING AT BOTTOM & AT DECK  
ALL BULK ANGLES ARE TO NEW BRITISH STANDARD  
SCANTLINGS SHOWN APPLY AMIDSHIPS AND ARE  
INCREASED FOR SHEER AS REQUIRED.  
SCANTLINGS, INCLUDING SHELL, CLEAR OF CARGO  
OILTANKS ARE SPECIALLY CONSIDERED.

ALL ATTACHMENT ANGLES TO BULKHEADS HYDRAULICALLY  
RIVETED ON THE GROUND PRIOR TO ERECTION.  
NO PLATE SEAMS OR BUTTS ARRANGED IN WAY OF THE CONNECTIONS  
OF THE TRANSVERSES & STRINGERS TO BULKHEADS.

IN CONNECTIONS WELDED THUS 1" RIVET HOLES IN BOTH BARS & BULKHEAD  
PUNCHED 1/8" SMALL AND CAREFULLY REAMERED OUT AFTER ASSEMBLY  
CONNECTIONS THEN DISMANTLED AND SURFACES CLEANED AND ALL  
BARS REMOVED ON RE ASSEMBLY BOLT FITTED IN EVERY 3RD HOLE,  
ALSO IN BOTH HOLES AT BOTH ENDS OF BARS AND ALL THOROUGHLY HARDENED  
END OF BARS ON FACE SIDE OF BULKHEADS WELDED PRIOR TO RIVETING  
SEE SKETCH.

DETAIL OF CENTRE GIRDER TRIPPING BRACKETS

BRACKETS MIDWAY BETWEEN TRANSVERSES  
& BETWEEN TRANSVERSES AND BULKHEADS  
6" x 3/8" x 50" VERTICAL ANGLE STIFFENERS  
FITTED TO INTERCOSTAL & GIRDER BETWEEN  
BRACKETS & TRANSVERSES & BULKHEADS.



3 1/2" x 3 1/2" x 7/8" SINGLE

A technical drawing of a cross-section of a girder. A horizontal line represents the centerline. Above it, a vertical line is labeled "CENTRE GIRDER". A horizontal line segment is labeled "50" STRAP". The drawing includes various dimensions and labels for structural components.

SECTION THROUGH WING TANKS  
AT INTERMEDIATE FRAME.

SECTION AT TRANSVERSES LOOKING AFT

EQUIPMENT № - 44588-10

## EQUIPMENT

3 BOWER	ANCHORS	75-18 CENTS EACH STAGGLES
1 STRADDL	ANCHOR	28 CENTS (EX STOOD)
240 PARTITIONS	2 7/8"	ST400 WIRE CHAIN CABLE
240 SPARE ANCHOR	AND 240 CABLE CABLES	
ONE BOX	PINE AND PLYWOOD AND ONE CHAINLIE PUNCH	
140 PARTIONS	5" (1/2") CONC. WIRE STREAM	
130 "	5 1/2" (3/8")	" TOW LINES
120 100 PARTIONS	2 1/2" (1/2")	" HAWSEINS.
20 100 "	2 1/2" (1/2")	" WIRING.

ALL WIRING ON REELS. ALL REELS TO HAVE WIRE 1/2" ABOVE  
SIZES SHOWN. REELS FOR LARGE WIRE DOUBLE PLYWIRE.

## RIVETING

BOTTOM SHELL BUTTS - QUADRUPLE OVERLAYS TO THIRLE AT ENDS  
SEW SHELL BUTTS - " " " " " "

SHELL L PLATING - DOUBLE RIVETED FORE AND AFT

KELP PLATE BUTS - QUINTUPLE OVERLAYS TO QUADRUPLE AT ENDS

STRUTTING BUTTS - " " FOR A LENGTH TO THREE  
AT ENDS WHERE NOT EXCEEDING .68"

STRAINE BELOW STENOGRAPH }  
BUTTS { QUADRUPLE OVERLAWS FOR % LENGTH TO THREE  
} AT ENDS WHERE NOT EXCEEDING .68"

THICK PLANT AT WINGS - QUINTUPLE RIVETED

UPPER DR SPRING BUTTS - QUADRUPLE OVERLAWS FOR % LENGTH TO THREE  
AT ENDS WHERE NOT EXCEEDING .68"

THICK UPPER DR SHARPEN PLATES AT BRACING - QUINTUPLE OVERLAPS

UPPER DECK BUTTS - QUADRUPLE OVERLAYS FOR % LENGTH ABOVE SE  
TO TRIBLE " " NOT EXCEEDING .68" } TO SINK  
" " " " " " " " AT END

" " " " " " " " NOT LESS THAN DOUBLE OVERLAY IN WAY OF OIL.

% LANDING: DOUBLE RIVETING IN WAY OF OIL, SINGLE RIVETS ELSEWHERE

OUGHT BURNISHED BUTTS AND LANDERS - DOUBLE RIVETED

RIVETS IN BOTTOM LONGITUDINALS TO SHELL - 3/8 DIA APART FOR 1/2 RIVETS EACH

SIDE OF TRANSVERSE AND BULKHEAD 4/16 DIA THROUGHOUT IN NET

8/16 TANGS & DIAS ELSEWHERE (SEE B&T DRAWING SEE TRAINING PLAN)

RIVETS IN DECK LONGITUDINALS - 5/16 DIA APART

- " - SIDE FRAMES TO SHELL IN WAY OF OIL - 5/16 DIA APART
- " - FRAMES TO SHELL CLEAR OF OIL AND PEAKS - 7 DIA WELDS UNDER 22.5 - 5/16 DIA WHERE OVER 22.5
- " " " " " IN PEAKS AND DEEP TONGS - 5/16 DIA APART
- " - FRAMES TO FRAMES & REVERSE FRAMES CLIP ON OIL - 7/16 DIA APART
- " - FACE BARS TO FLOORS IN WAY OF OIL - 5/16 DIA APART
- " - OUTRIGT BULKHEAD STIFFENERS - 5/16 DIA APART
- " - FRAMES AND FLOORS IN AFTER PEAK - 5/16 DIA APART
- " - FRAMES TO FLOORS & FRAMES TO SHELL ON BOTTOM POSITIONING OF 1/2 PEAK - 5/16 DIA APART
- " - SHELL SEAMS IN WAY OF OIL - 4 DIA APART (CLEAR OF OIL AS PER RULES) 3/8 DIA CLEAR OF TANGS & PEAKS
- " - UPPER IN SEAMS & BUTTS IN WAY OF OIL - 4 DIA APART WHERE EXCEEDING 80°  
3/8 DIA APART WHERE THICKNESS IS 80° AND UNDER
- " - BUTTS OF KEEL, SUBSTRUCTURE
- " - STAKE BELOW SHEEDSTAKE SHELL
- " - AND UPPER DEK STAYLIDER

QUINTUPLE BUTTS - 4/8 DIA APART
QUADRUPLE BUTTS - 4/8 DIA APART
TRIPLE BUTTS - 3/8 DIA APART

RIVETS IN OUTRIGT BULKHEAD FRAMES & BULKHEAD ANGLES - 5 DIA APART

- " - TRANSVERSE BEAMS TO BECK IN WAY OF OIL - 5 DIA APART
- " - TRANSVERSE FLOORS TO SHELL IN WAY OF LONGITUDINAL FRAMES - 5 DIA APART WHERE

BACK BARS FITTED & DIA APART WHERE INDICATED ON SECTION, 4/16 DIA ELSEWHERE (BOTH FLANGES)


- " - STRINGER FACE BARS IN WAY OF OIL - 5 DIA APART
- " - FACE BARS ON TRANSVERSE DECK BEAMS - 5 DIA APART
- " - BRACKET ATTACHMENTS WHERE NOT SPECIALLY NOTED NOT MORE THAN 5 DIA APART



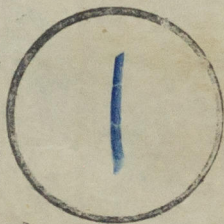
HARLAND & WOLFF'S

MIDSHIP SECTION (AS BUILT)

N<sup>o</sup> 11749

"NERITINA" 

Glasgow Spr. no. 67848



sister vessel "Narica"  
(1173 Belfast)

003307-003310-0003

© 2020

Lloyd's Register  
Foundation