

"WELSH TRADER" **S.S. No 584.** **MIDSHIP SECTION.**

COMPLETE SUPERSTRUCTURE TYPE.

LLOYD'S 100 A1. CLASS, WITH A FREEBOARD CORRESPONDING TO A DRAUGHT

Scale $\frac{1}{2}$ = 1 foot.

NOT EXCEEDING THAT CONTEMPLATED BY THE RULES
 FOR A C.S.S. VESSEL HAVING A TONNAGE OPENING.
 "LONGITUDINAL FRAMING AT DECK."

NUMERALS.

$$L \times D = 415 (26.83 + 8.0) = 14454$$

$$L (B + D) = 415 (58.08 + 34.83) = 38557$$

EQUIPMENT NUMERALS.

$$415 (58.08 + 35.75) = 38939$$

$$\text{FORECASTLE } 30.12 \times 7.0 \times 75 = 158$$

$$\text{DECKHOUSE } 73.75 \times 8.0 \times 50 = 295$$

39392 Letter a

PRINCIPAL DIMENSIONS.

LENGTH BET. PERPS.	415.0
BREADTH EXTREME	58.4 1/2
" MOULDED	58.1
DEPTH MLD. UPPER DECK	35.9
" " SECOND "	26.10
DEPTH TO LENGTH (U. DECK)	11.61

OWNERS EXTRA: FORE & AFT UPPER DECK PLATING
 OUTSIDE OF HATCHES TO BE INCREASED BY "08"

UPPER DECK 44 IN WAY OF HATCHES.

42 " " CASINGS

TO 36 AT ENDS.

DOUBLE RIVETED END LAPS FOR 1/2 L.

DOUBLE TO SINGLE AT ENDS.

U. DECK STRINGER 60 x 60 to 39 x 42.

TREBLE RIVETED END LAPS FOR 1/2 L.

TREBLE TO DOUBLE AT ENDS.

STRINGER ANGLE 6 x 6 x 60 to 3 1/2 x 3 1/2 x 42.

10 x 3 1/2 x 44 B.A. NBS.

9 x 3 1/2 x 42 B.A. NBS.

UPPER DECK BETWEEN OPENINGS 39 to 36.

DOUBLE RIVETED END LAPS FOR 1/2 L.

SINGLE " " " AT ENDS.

5 x 3 x 36 LUG.

2 RIVETS.

1 1/2 CAMBER.

SHEERSTRAKE 72 x 60 to 46.

QUAD RIVETED END LAPS FOR 1/2 L.

TREBLE AT ENDS.

STRAKE BELOW SHEERSTRAKE

78 x 60 to 46.

TREBLE RIVETED END LAPS.

WELDED PLATE COLLAR

AT EACH FRAME.

TWEEN DECK FRAMES 7 x 3 1/2 x 42 B.A.

ON ALTERNATE FRAMES AND

AS PER PROFILE.

2" DECK STRINGER 60 x 38 to 36 x 34.

DOUBLE RIVETED END LAPS.

STRINGER ANGLE 3 1/2 x 3 1/2 x 42 to 34.

SECOND DECK 34 to 30.

DOUBLE RIVETED END LAPS FOR 1/2 L.

SINGLE " " " AT ENDS.

10 x 3 1/2 x 44 B.A. NBS.

SECOND DECK BET. OPENINGS 33 to 30.

DOUBLE RIVETED END LAPS FOR 1/2 L.

SINGLE " " " AT ENDS.

STEEL C.L. BULKHEAD 26.

STIFFENERS AS PER PROFILE TWO FRAME

SPACES APART. DOUBLE AT HATCH

ENDS WITH BRACKETS TOP & BOTTOM.

DECK CONNECTIONS 3 x 3 x 36.

STEEL C.L. BULKHEAD 30.

STIFFENERS AS PER PROFILE TWO FRAME

SPACES APART. DOUBLE AT HATCH

ENDS WITH BRACKETS TOP & BOTTOM.

DECK CONNECTIONS 3 x 3 x 40.

TANK TOP " 3 1/2 x 3 x 40.

STEEL C.L. BULKHEAD 30.

STIFFENERS AS PER PROFILE TWO FRAME

SPACES APART. DOUBLE AT HATCH

ENDS WITH BRACKETS TOP & BOTTOM.

DECK CONNECTIONS 3 x 3 x 40.

TANK TOP " 3 1/2 x 3 x 40.

OWNERS EXTRA: ✓

FLOORS UNDER ENGINES 48" THICK.

FLOORS UNDER BOILERS 53" THICK.

TANK TOP UNDER BOILERS AND IN PERMANENT

BUNKERS TO BE INCREASED 1/2 INCH.

IN WAY OF ANCHOR & CABLE CHAFING, THE

INSIDE STRAKES ARE TO BE DOUBLED UP

FLUSH WITH THE OUTSIDE STRAKES.

CENTRE GIRDER 42 1/2 ABOVE KEEL x 54 to 46 1/2 B.S.

END LAPS TREBLE RIVETED.

TOP BARS 3 1/2 x 3 1/2 x 47 to 43 1/2 B.S.

BOTTOM BARS 4 x 4 x 53 to 49.

VERTICALS 3 1/2 x 3 1/2 x 53 1/2 B.S. 3 x 3 x 43 AT ENDS.

" 5 x 5 x 43 UNDER ENGINES AND THRUST BLOCK.

" 5 x 5 x 53 " BOILER BEARERS.

9 RIVETS 3/4 TO FLOORS.

8 " 7/8 " CENTRE GIRDER FOR 1/2 L.

9 " 3/4 " " " AT ENDS.

WELDED TO TOP.

TANK TOP PLATING INCREASED BY "08" IN WAY
 OF HATCHES IN LIEU OF CEILING.

MARGIN PLATE 38 x 54 1/2 B.S. TREBLE RIVETED END LAPS.

" ANGLE 3 1/2 x 3 1/2 x 54.

BOT. 43 x 43 FL 53 B.S.

" CONNS 5 x 5 x 43 1/2 B.S. 11 1/2 RIVETS & 10 1/2 WELDED GUSSETS FL 2.

" " IN PANTING AREA 6 x 6 x 43 1/2 B.S. 15 1/2 RIVETS & 10 1/2 WELDED GUSSETS FL 2.

FLOORS & INTERMEDIATE FLOORS TO MARGIN 5 x 3 1/2 x 43, 6 x 6 x 43 IN PANTING AREA.

FLOORS EVERY FRAME UNDER ENGINES, BOILER BEARERS AND
 FORWARD OF 3/5 L. ELSEWHERE EVERY 4" FRAME, WITH INTERMEDIATE
 BRACKET FLOORS. PARTIAL FLOORS UNDER THRUST BLOCK.

✓ FLOORS 40 1/2 B.S. WITH STIFFERS 3 x 3 x 40 1/2 B.S.

W.T. FLOORS 50 1/2 B.S. WITH STIFFERS 5 x 3 x 36 SPACED 30."

✓ TANK TOP PLATING 43 to 39 1/2 B.S. 57 B.S. WITH 30 x 27 SPACING.

DOUBLE RIVETED END LAPS FOR 1/2 L. SINGLE AT ENDS.

TANK TOP CENTRE STRAKE 60 x 52 to 44 1/2 B.S. 57 B.S.

TREBLE RIVETED END LAPS FOR 1/2 L. DOUBLE AT ENDS.

FRAMES 3 1/2 x 43. REVERSE FRAMES 3 x 3 x 43 1/2 B.S. 53 B.S.

6 x 6 x 43 UNDER ENGINES & THRUST. 6 x 6 x 53 UNDER BOILER BEARERS.

INTERCOSTAL GIRDERS. LEACH SIDE 37 1/2 B.S. 51 B.S.

GIRDER VERTICALS 3 x 3 x 39 1/2 B.S. 49 B.S. SHELL CONNS 3 1/2 x 3 1/2 x 43.

TANK TOP CONNS 3 x 3 x 43 1/2 B.S. 6 x 6 x 43 UNDER ENGINES & THRUST.

" " 3 1/2 x 3 1/2 x 53 1/2 B.S.

$$23.5 \frac{1}{2} \left(\frac{57.125}{2} \right) = 24.5 \frac{1}{2} \text{ d FOR FRAMES.}$$

MAIN FRAMES 12 x 3 1/2 x 3 1/2 x 46 1/2 B.S. SPACED 30, 27 FOR 3/5 L. TO 2" DECK.

" " 12 x 3 1/2 x 3 1/2 x 52 1/2 B.S. IN B.R.M. & PERMANENT BUNKERS.

" " 12 x 4 x 4 x 51 1/2 B.S. IN WAY OF PANTING.

" " 11 x 3 1/2 x 40 B.A. NBS. IN WAY OF AFTER DEEP TANK.

PEAK FRAMES 8 x 3 x 34 B.A. NBS. SPACED 24 APART.

RIVETING SIDE FRAMES TO SHELL 6" DIAS. APART AT 30" SPACING.

" " " " 7 " " " 27 " "

" " " " 5 " " " FOR 10% L. AFT OF RULE POSITION OF COLLISION BULK.

" " " " 5 1/2 " " " IN PEAK TANKS & AFTER DEEP TANK.

6 x 2 CARGO BATTENS SPACED 9" APART.

SIDE SHELL 58" WITH 30" SPACING

TO 46 AT ENDS.

TREBLE RIVETED END LAPS.

SIDE SHELL 25% ABOVE END THICKNESS

= 58" IN WAY OF PANTING FOR A

DISTANCE AFT OF RULE POSITION OF

COLLISION BULKHEAD EQUAL TO

10% LENGTH OF VESSEL.

BOSS PLATING 68"

SKETCH OF TANK GUSSET.

BOT. FLANGED 3"

GUSSET 4" WITH 2 FL.

WELDED TO BOT. &

KNUCKLE OF MARGIN.

10% AT PANTING FRAMES.

BOTTOM FRAMES FROM 1/2 L. FORWARD TO

COLLISION BULKHEAD 6 x 6 x 43 ON SOLID FLOORS.

3 1/2 x 3 1/2 x 43 BACK BARS ON SKELETON FLOORS.

BETWEEN FLANGES OF BRACKETS & VERTICALS.

RIVETS TO SHELL AND FLOORS 5 1/2 DIAS. APART.

BOTTOM SHELL 58" WITH 30" SPACING TO 46 AT ENDS.

TREBLE RIVETED END LAPS.

RIVETS IN BOTTOM FRAMES TO SHELL AND FLOORS SPACED 7 DIAS.

THREE STRAKES NEXT TO KEEL TO BE 10% ABOVE MIDSHIP THICKNESS = 64" (65" IN WAY OF 27 SPACING)

FROM 1/2 L. FORWARD TO RULE POSITION OF COLLISION BULKHEAD.

KEEL 5 1/2 x 77 FOR 3/5 L. TO 67 AT ENDS.

QUAD. RIVETED END LAPS FOR 1/2 L.

TREBLE " " " AT ENDS WHERE 70" AND UNDER.

1 RIVETS IN END LAPS ABOVE 72 1/2 AT ENDS.

7/8 RIVETS IN SEAMS AND FRAMES.

BILGE KEEL

6 x 4 x 50 T.BAR.

12 x 50 BULB PLATE

6 3/4 RIVETS

5 1/2 x 38 B.A. WITH 30" SPACING, 48 B.S.

6 3/4 RIVETS

3 1/4 RIVETS SPACED 7 DIAS.

4 3/4 RIVETS

6 3/4 RIVETS

"WELSH TRADER"

Joseph L. Thompson & Sons, Tel 584

SUNDERLAND RPT. NO. 32326

Midship Section (as built)



© 2020

Lloyd's Register

Foundation

009242-0104