18298 Iron

Port Glasgow April 26th 1874

Details of Main Boilers of the Steam Ship "Loch Nell" 63 tons

Diameter 8 ft 4 Length 8 ft 4

Thickness of shell plates 9/16"

Description of riveting of longitudinal joints Double riveted of circumferential joints Single

Pitch of rivets ditto 3" ditto 2½"

Diameter of rivets ditto 7/8" ditto — 7/8"

Lap of plating ditto 5" ditto 3"

Size of manholes in circular shell 12" x 16" inside of Dome

How compensated for By flat ring

Number of furnaces in boiler Two

Diameter of furnaces 2' 5" Length of furnaces 5' 9"

Thickness of furnace plates 6/16"

Description of joint of furnaces Double butt straps fitted

Whether strengthened with rings — Greatest length between rings —

Thickness of combustion chamber plating 7/16"

Diameter of screw stays to ditto 1¼" pitch of stays 8" x 9"

End plates, thickness 9/16"

Diameter of longitudinal stays to end plates 1⅞" pitch of ditto 12" x 16"

How stays are secured By double nuts

Diameter of tubes 3" pitch of tubes 4¼"

Thickness of tube plates 9/16"

Stayed by One row of Bar stays & one row of Tubes pitch of stays 12¾" x 12½"

Description of steam receiver Dome

Diameter of ditto 2' 6" ~~length~~ height of ditto 3' 0

Thickness of plating of ditto 7/16" ends 7/16"

Ends, how stayed By three stays 1½" dia fitted with nuts

James Mollison

Engineer Surveyor to Lloyd's Register of Shipping.

R.T.O.

(1000/4/8/76.)

Report (if any) on Hull of Vessel. Port Glasgow No. 433

IRON471-0362

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Formulae for Shell $\frac{51520 \times 1.25 \times 70\%}{94.75 \times 6.5} = 73$ lbs

Formula for Flat plates $\frac{100 \times 49}{42} = 68$ lbs

Formula for Flues $\frac{89600 \times .13}{5.75 \times 29''} = 80$ lbs

Longitudinal Stays 1⅞" dia 12"×16" pitch = 4521

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