

Working pressure by Rules 168 lbs. Are the stays drilled at the outer ends yes Margin stays: Diameter { At turned off part, 1 5/8" Over threads }
No. of threads per inch 9 Area supported by each stay 84 3/4 Working pressure by Rules 148 lbs.
Tubes: Material Iron External diameter { Plain } 2 3/4" Thickness { 9 1/2" } No. of threads per inch 9"
Pitch of tubes 3 1/16" x 3 1/16" Working pressure by Rules 215 lbs. Manhole compensation: Size of opening in
shell plate 21" x 14" Section of compensating ring 8" x 2 9/16" No. of rivets and diameter of rivet holes 36 @ 1 1/16"
Outer row rivet pitch at ends 6 1/8" Depth of flange if manhole flanged 3 1/2" Steam Dome: Material
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets }
Internal diameter Working pressure by Rules Thickness of crown No. and diameter of
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes Steel castings }
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off and
the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
tubes castings and after assembly in place Are drain cocks or valves fitted
to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,

R.B. Armstrong Manufacturer.

Dates of Survey { During progress of work in shops - - } 1930 Sep. 9, 15, Oct. 7, 10, 20, 22, 27. Are the approved plans of boiler and superheater forwarded herewith yes
while building { During erection on board vessel - - - } 1931 June 30, Oct 6, 17, 19, 21 (If not state date of approval.) Please return to the office for duplicate if
Total No. of visits 7 + 5

Is this Boiler a duplicate of a previous case If so, state Vessel's name and Report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been built under special survey in accordance with the approved plans & the Rules of the Society & have been forwarded to the vessel to be fitted on board. The workmanship & materials are of good quality throughout.
These Donkey Boilers have been fitted on board the M.V. "Cowrie" and recently forwarded, examined under working condition and found in order. The safety valves adjusted to blow at 155 lbs.

R. B. Armstrong

Survey Fee ... £ 15 : 4 : - When applied for, 30 OCT 1930
Travelling Expenses (if any) £ : : : When received, 14. 11. 1930

Fred. O. Ferguson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 10 NOV 1931
Assigned Sa F.B. Rpl.