Sld. No. 29900
Gls. No. 48450

# REPORT ON BOILERS.

Received at London Office -3 OCT 192

When handed in at Local Office 29.9.1928 Port of Glasgow. 30th Nov. 1928
Date, First Survey 14.8.28 Last Survey 28th Sept. 1928
(Number of Visits 5) Tons { Gross 4392 Net 2649.
When built 1928.

Survey held at Annan
on the Boiler No. 11038 M.S. "Northmoor"
Built at Sunderland By whom built Wm Doxford & Sons Ltd When made 1928
By whom made Messrs Cochran & Co. Annan Ltd
Port belonging to London.

## VERTICAL DONKEY BOILER— No. One Description Vertical Manufacturers of steel D. Colville & Sons Ltd

Made at Annan By whom made Cochran & Co. Annan When made 1928 Where fixed Recess in engine room Working pressure 120 lbs
Tested by hydraulic pressure to 230 lbs Date of test 28-9-28 No. of Certificate 18050 Fire grate area 41 sq. ft. Description of safety valves Enclosed spring
No. of safety valves 2 Area of each 7.068 sq. in. Pressure to which they are adjusted 125 lbs. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 8'-6" Length 19'-3" Material of shell plates Steel Thickness 23/32" 7/8" 23/32"
Range of tensile strength 28-32 Description of riveting long. seams D.R. Lap Diameter of rivet holes 1 1/8" Whether punched or drilled drilled Pitch of rivets 3.4166" 3.294" 3.24" Lap of plating 5 3/8" Per centage of strength of joint Rivets 66.5% Plates 65.3% Working pressure of shell by rules 129.9 lbs Thickness of shell crown plates 1 1/8" & 2/32" Radius of do. 4'-3" No. of stays to do. ✓ Diameter of stays ✓ Diameter of furnace—Top ✓ Bottom 7'-6" Length of furnace 4'-5" Thickness of furnace side plates ✓ Description of joint ✓ Working pressure of furnace by rules 140 lbs. Thickness of Ogee ring 1 1/8" Working pressure of Ogee ring by rules 131.8 lbs. Thickness of furnace crown plates 3/4" Radius of do. 3'-9" Stayed by Hemisphere Diameter of uptake 18" x 28 1/2" Thickness of uptake plates 9/16" Thickness of tube plates front 1 1/32" back 1" Mean pitch of stay tubes in nest 11" Pitch in outer vertical rows 9.208"
Diameter of tube holes FRONT stay 2 11/16" plain 2 9/16" BACK stay 2 1/2" plain 2 1/2" Working pressure of tube plates by rules F. 127.1 lbs / B 131.0 lbs Tubes: Material Wrot iron.
External diameter stay 2 1/2" plain 2 1/2" Thickness stay 11/32" plain 11.L.S.G. No. of threads per inch 9 Pitch of tubes 4.604" x 3 9/16"
Working pressure by rules 125 lbs. Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 1 3/32" No. of rivets and diameter of rivet holes 36 ff. 1 1/8" Outer row pitch at ends 3 7/8"

The foregoing is a correct description,
for COCHRAN & CO. ANNAN, LIMITED
H.E. Woodham Manufacturer.

(Usual Request.)

Drawing No. 16044

Dates of Survey while building { During progress of work in shops— 1928. Aug. 14-31. Sept 11-20-28. / During erection on board vessel — / Total No. of visits 5

Is the Copy of Approved plan of boiler forwarded herewith yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under survey, in accordance with the rules, and approved plan. The materials and workmanship are good.

This boiler is to the order Messrs Wm Doxford & Sons Ltd. Sunderland, and intended for "Moor" Line vessel No. 590.
This boiler has been satisfactorily fitted on board the vessel & the safety valves adjusted under steam
For notation see machinery report.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Survey Fee ... ... £4-4-0
Travelling Expenses (if any) £ : :

When applied for MONTHLY ACCOUNT 19
When received 19

Committee's Minute GLASGOW 2 - OCT 1928
Assigned TRANSMIT TO LONDON

Garbottle.
G. E. Murdock.
Engineer Surveyor to Lloyd's Register of Shipping.
FRI. 7 DEC 1928

see minute on attached Sld Rpt 29900

W202-0052

[750,1.27—Copyable Ink.]
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