

REPORT ON BOILERS

2 MAY 1961
No. 91689

Received at London Office.....
 Date of writing Report 3.9.10 60 When handed in at Local Office 22.9.10 60 Port of GLASGOW
 No. in Survey held at Annan Date, First Survey 2.2. Last Survey 30.8.19 60
 Reg. Book 9212 on the 'MONTROSE' (Number of Visits 10) Gross 1993 Tons Net 1616
 Built at SUNDERLAND By whom built North Eastern Marine Eng. Co. Yard No. 3414 When built 1961-3
 Boilers made at Annan By whom made BARTRAM & SONS LTD., 386 Cochran & Co. Annan Ltd Boiler No. 22357 When made 1960
 Owners MONTSHIP LINES LTD. Port belonging to LONDON.

VERTICAL DONKEY BOILER— No. One Description Vertical Manufacturers of steel Steel Columns
 Made at Annan By whom made Cochran & Co. Annan Ltd When made 1960 Where fixed - Working pressure 100
 tested by hydraulic pressure to 200 Date of test 30.8.60 No. of Certificate 25705 Total heating surface of boilers 500 sq. ft Area of firegrate in
 each boiler No. and description of safety valves on each boiler Springs Area of each set of valves per boiler 9.816 sq. in. Pressure to which
 they are adjusted If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Diameter of boiler 6'6"
 Length 16'3" Material of shell plates Steel Thickness 15/32" 19/32" Range of tensile strength 28/32T Description of riveting long.
 seams D.R. LAP Diameter of rivet holes 27/32" Whether punched or drilled drilled Pitch of rivets 2 7/16" 2.56" Lap of
 plating 1/4" Thickness of shell crown plates 7/8" 13/32" Radius of do. 3'3" No. of stays to do. Diameter of stays Diameter of
 furnace—Top Bottom 5'6" Length of furnace Thickness of furnace side plates 1/2" Description of joint Seamless Thickness
 of Ogee ring 7/8" Thickness of furnace crown plates 1/2" Radius of do. 2'9" Stayed by hemisphere Diameter of
 uptake 16" x 20" Thickness of uptake plates 1/2" Thickness of tube plates front 13/16" back 23/32" Mean pitch of stay tubes in nest As approved
 Pitch in outer vertical rows 8" Diameter of tube holes FRONT stay 2 17/32" stay 2 1/2" BACK plain 2 9/16" plain 2 1/2" Tubes: Material Steel
 External diameter stay 2 1/2" Thickness stay 3 LSG No. of threads per inch Pitch of Tubes 3 9/16" x 4"
 plain 2 1/2" Thickness plain 10 LSG Crown
 Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating ring 6 21/32" x 1" No. of rivets and
 diameter of rivet holes 40 at 27/32" Outer row pitch at ends 1 1/8" Flanged 3 1/2"

The foregoing is a correct description,

J. Wilson FOR COCHRAN & CO.

Manufacturer

3rd June, 7th, 14th July, 18th Aug, 30th.

Dates of Survey while building
 During progress of work in shops - 2nd Feb, 25th Mar, 14th Apr, 5th May, 12th, Drawing No. V12799A
 During erection on board vessel - -
 Total No. of visits 10 Is the approved plan of boiler forwarded herewith Yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been constructed under Special Survey in
 accordance with the Society's Rules and approved plans.

The Materials and Workmanship are good.

SURVEY OF MACHINERY.

SUNDERLAND

This boiler has been securely fixed on board the M.V. "Montrose", Bartram's Yard
 No. 386, examined under full working conditions. The safety valves have been
 adjusted under steam to 100 lb/sq. in. and tested for accumulation with satisfactory results.
 For recommendations see Sunderland Machinery Report 46

J. Wilson

Survey Fee ... £ 12 : -

Travelling Expenses (if any) £ :

MONTHLY ACCOUNT

When applied for 19

When received 19

Committee's Minute

GLASGOW 27 SEP 1960

Assigned

Deferred for completion.

J. Grimshaw

Engineer Surveyor to Lloyd's Register of Shipping

(J. GRIMSHAW)

Lloyd's Register
Foundation

014704-014711-0108