

REPORT ON WATER TUBE BOILERS.

No. 59370

FEB -9 1938

Received at London Office

Date of writing Report 17/1 1938. When handed in at Local Office 7.2. 1938 Port of Glasgow.

No. in Survey held at Renfrew. Date, First Survey 20-5-37 Last Survey 1-2-1938

Reg. Bk. 2 Boilers No 6/1328 s/s "REBECA" Number of Visits 28 Tons { Gross Net

Master Middlesbrough By whom built Furness: S.B.G (No 244) When built 1938

Engines made at Hartlepool By whom made Richardsons Westgarth (No 2689) When made 1938

Boilers made at Renfrew. By whom made Babcock & Wilcox Ltd When made 1938.

Registered Horse Power _____ Owners Curacao'sche Sch. Mij Port belonging to Willemstad

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Steel Co. of Scotland Ltd.

(Letter for Record _____) Date of Approval of plan 8/3/34. Number and Description or Type of Boilers 2 Babcock Wilcox Working Pressure 180 lb Tested by Hydraulic Pressure to 320 lb Date of Test 24/12/37.

No. of Certificate 20049. Can each boiler be worked separately Yes. Total Heating Surface of Boilers 6520 sq. ft.

Is forced draught fitted Yes. Area of fire grate (coal) in each Boiler (oil burning) 3 Swinney's No 7 Total grate area of boilers in vessel including Main and Auxiliary _____ No. and type of burners (oil) in each boiler _____ No. and description of safety valves on each boiler 2 - Imp. High Lift. Area of each valve 5.94 sq (2 3/4" dia) Pressure to which they are adjusted 185 lbs.

Are they fitted with easing gear Yes. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler 12' 10 1/2" x

Smallest distance between boilers or uptakes and bunkers 18" Height of Boiler 11' 6" approx Width and Length 13' 6 3/4" approx.

Steam Drums:—Number in each boiler One. Inside diameter 3' 6" Material of plates Steel Thickness 1/2" 9 1/16"

Range of Tensile Strength 28-32 Tons. Are drum shell plates welded or flanged no. Description of riveting:—

Cir. seams D.R. long. seams D.R.-D.B.S. Diameter of rivet holes in long. seams 27/32" Pitch of Rivets 3.229"

Lap of plate or width of butt straps 8 1/16" Thickness of straps 1/2" Percentage strength of long. joint:—Plate 43.84 Rivet 102.0.

Diameter of tube holes in drum 9 1/16" 4 3/16" Pitch of tube holes 4" x 6" Percentage strength of shell in way of tubes 41.7.

If Drum has a flat side state method of staying _____ Depth and thickness of girders at centre (if fitted) _____ Distance apart _____ Number and pitch of stays in each _____ Working pressure _____

by rules _____ Thickness 3/4" plate. Radius or how stayed 3'-0"

Size of Manhole or Handhole 16" x 12" Water Drums:—Number in each boiler 1. Inside Diameter 6" sq section.

Material of plates Steel Thickness 3/4" Range of tensile strength 28-32 Tons Are drum shell plates welded or flanged Solid drawn. Description of riveting:—Cir. seams _____ long. seams _____ Diameter of Rivet Holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____ Thickness of straps _____

Percentage strength of long. joint:—Plate _____ Rivet _____ Diameter of tube holes in drum 4 3/16" Pitch of tube holes 4" H.P.

Percentage strength of drum shell in way of tubes _____ Material MUD Thickness _____

Radius or how stayed _____ Size of manhole or handhole 4 1/16" sq. Headers or Sections:—Number 18 per boiler.

Material Steel Thickness 32" minimum Tested by Hydraulic Pressure to 320 lb Material of Stays _____ Tubes:—Diameter 4" x 13" O/D.

Area at smallest part _____ Area supported by each stay _____ Working Pressure by Rules _____

Thickness 6 L.S.G, 1/4", 10 L.S.G. Number 56 @ 4" Steam Dome or Collector:—Description of Joint to Shell _____ Material _____

Percentage strength of Joint _____ Diameter _____ Thickness of shell plates _____ Working Pressure of shell _____

Description of longitudinal joint _____ Diameter of Rivet Holes _____ Pitch of Rivets _____

by Rules _____ Crown or End Plates:—Material _____ Thickness _____ How stayed _____

Tested by Hydraulic Pressure to _____

SUPERHEATER. Type _____ Date of Approval of Plan _____ Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler _____

Date of Test _____ Pressure to which each is adjusted _____ Is easing gear fitted _____

Diameter of Safety Valve _____ Number, diameter, and thickness of tubes _____

Is a drain cock or valve fitted at lowest point of superheater _____ Handhole _____ Handhole plates _____

Spare Gear. Tubes _____ Gaskets or joints:—Manhole _____

The foregoing is a correct description,

Babcock & Wilcox Ltd. Manufacturer.

Dates of Survey while building } During progress of 1937 May: 20-25 June: 14-15-24-30 Aug 9 Is the approved plan of boiler forwarded herewith no, req. for duplicate plan.

} During erection on 18 Sep: 6-8-15 Oct: 6-8-12-14-21 Nov: 3-9 Total No. of visits 28

} 19.25-29 Dec: 1-14-16-21-24 (1938) Jan: 17 Feb: 1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey, to approved plans in accordance with the Society's Rules. Materials and workmanship are good. They are intended for Mr Richardsons Westgarth Eng No 2689, for Mr Furness S.B.G Yard No 244.

7/2/38. Boilers examined during installation at West Hartlepool and afterwards under steaming conditions.

Survey Fee ... £ 34/4/0. When applied for, _____ 19

Travelling Expenses (if any) £ _____ When received, _____ 19

MONTHLY ACCOUNT

H. Sutherst.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8 FEB 1938 1RH

Assigned TRANSMIT TO LONDON

See Indb 96, 16275

