

REPORT ON WATER TUBE BOILERS.

No. 50564

Received at London Office

[9 JUL 1930

Date of writing Report 191 When handed in at Local Office 12. 6. 1930 Port of Glasgow.

No. in Survey held at Renfrew Date, First Survey 25. 12. 29 Last Survey 12th June 1930

Reg. Bk. 70508 Sup on the BOILERS No 6/1258 'F. H. BEDFORD JR Number of Visits 27 Tons Gross 11952 Net 6831.

Master Built at Haverhill Hillen Tee By whom built Furness S.B. Co Ltd When built 1930

Engines made at Kiel By whom made Fried. Krupp. When made 1930.

Boilers made at Renfrew By whom made Messrs Babcock & Wilcox Ltd When made 1930

Registered Horse Power Owners Baltic Petroleum Import G.M.B.H. Danzig

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel G. Colville & Sons

(Letter for Record S) Date of Approval of plan 6-3-30, 4-3-30, 21-1-30, Number and Description or Type of Boilers Two Babcock & Wilcox Ltd Working Pressure 200 lbs. Tested by Hydraulic Pressure to 350 lbs. Date of Test 2. 10. 30

No. of Certificate 6826. Can each boiler be worked separately yes Total Heating Surface of Boilers 4068 sq ft

Is forced draught fitted yes Area of fire grate (coal) in each Boiler ✓ Total grate area of boilers in vessel including Main and Auxiliary ✓ No. and type of burners (oil) in each boiler 3- Todd Pressure Burners No. and description of safety valves on each boiler 1 Pair 2" J.H.L. Lochburn Type. Area of each valve 6.28 sq inches Pressure to which they are adjusted 205 lbs.

Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ✓

Smallest distance between boilers or uptakes and bunkers or woodwork Dist. 1'-1" Height of Boiler 15'0" Width and Length 10'-6" x 14'-6"

Steam Drums:—Number in each boiler One Inside diameter 3'-5 1/2" Material of plates Steel Thickness 1 1/32 T.P. 1 1/16"

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

Cir. seams D.R. Lap. long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 27/32 Pitch of Rivets 3.813"

Lap of plate or width of butt straps MEAN. 9" Thickness of straps 17/32 Percentage strength of long. joint:—Plate 71.88 Rivet 94

Diameter of tube holes in drum 4 3/64" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.2

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 ✓

Steam Drum Heads or Ends:—Material Steel Thickness 15/16" Radius or how stayed 3'-0"

Size of Manhole or Handhole 16" x 12" MVD Water Drums:—Number in each boiler one Inside Diameter 6" x 6"

Material of plates S.D. Steel Thickness 3/4" Range of tensile strength 24-28 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 3/64" Pitch of tube holes 7"

Percentage strength of drum shell in way of tubes 42.2 Water Drum Heads or Ends:—Material Steel Thickness 3/4"

Radius or how stayed Flat Size of manhole or handhole ✓ Headers or Sections:—Number 14 Pairs per Boiler

Material Steel Thickness 1 1/32" Tested by Hydraulic Pressure to 400 lbs. Material of Stays ✓

Area at smallest part ✓ Area supported by each stay ✓ Working Pressure by Rules 207 lbs. Tubes:—Diameter 4" 11/16"

Thickness 4 1/16" x 1 1/16" {9.56.} Number 42 off Steam Dome or Collector:—Description of Joint to Shell ✓

Percentage strength of Joint ✓ Diameter 1 1/16" 430" Thickness of shell plates ✓ Material ✓

Description of longitudinal joint ✓ Diameter of Rivet Holes ✓ Pitch of Rivets ✓ Working Pressure of shell by Rules ✓

Crown or End Plates:—Material ✓ Thickness ✓ How stayed ✓

UPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓

Date of Test ✓ Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler ✓

Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is easing gear fitted ✓

Is a drain cock or valve fitted at lowest point of superheater ✓ Number, diameter, and thickness of tubes ✓

Spare Gear. Tubes 7" 4 off Gaskets or joints:—Manhole 6 Handhole 100 Handhole plates 14

The foregoing is a correct description, Babcock & Wilcox, Ltd. Manufacturer.

Dates of Survey } During progress of } 19th Dec 28-31 (1930) Jan 23-27 Feb. 12-27 Mar 10-11 Is the approved plan of boiler forwarded herewith NO. 6/1259
while building } During erection on } 17. 28. 29 Apr 1. 3. 4. 7. 9. 10. 14. 22. 28 May 5. 6. 7. 12 Total No. of visits 27
board vessel } 16. 24 June 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These steam drums, sections, and mud drums have been built under survey in accordance with the Rules and approved plans. The material and workmanship are good. They are to the order Messrs Furness S.B. Co. Ltd and intended for their No. 176. These boilers have been securely fitted aboard, tested by hydraulic pressure to 350 lbs. per sq. inch with satisfactory results and their safety valves adjusted under stress by G. Murdoch.

Survey Fee ... £ 15 : 12 : 0 } When applied for, 191
Travelling Expenses (if any) £ : : } When received, 191

Committee's Minute GLASGOW 8 - JUL 1930
Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.
FRI. 21 NOV 1930
See Indb 56
14269
Lloyd's Register Foundation
002385-002400-0215