

REPORT ON BOILERS.

No. 8400.

Port of *Bundee*Received at London Office *16 DEC. 1922*No. in Survey held at *Bundee*
Reg. Book.Date first Survey *23rd Sept 1921*, Last Survey *9th Dec 1922*(Number of Visits *23*)on the *H.M. "British Commander"*Gross
Tons
Net

Master

Built at *Bundee*By whom built *Caledon S.B. & Co. Ltd*When built *1922*Engines made at *Manchester*By whom made *Metropolitan-Vickers Electrical Co. Ltd*when made *1922*Boilers made at *Bundee*By whom made *Caledon S.B. & Co.*when made *1922*

Registered Horse Power

Owners *British Tankers Ltd.*Port belonging to *London*MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel *Barrow, South Durham, Scotland I.R.S.*(Letter for record *S*) Total Heating Surface of Boilers *1114* Is forced draft fitted *no* No. and Description ofBoilers *Single ended multitubular* Working Pressure *120 lbs* Tested by hydraulic pressure to *230* Date of test *27-1-22*No. of Certificate *994* Can each boiler be worked separately *✓* Area of fire grate in each boiler *27.34* No. and Description ofsafety valves to each boiler *Two spring loaded* Area of each valve *7.06* Pressure to which they are adjusted *125 lbs*Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *no*Smallest distance between boilers or uptakes *Casings* *18"* Mean dia. of boilers *10'-6"* MEAN Length *10'-6"*Material of shell plates *S* Thickness *5/8"* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *no*Descrip. of riveting: cir. seams *L.D.R.* long. seams *D. STAPLE T.P.* Diameter of rivet holes in long. seams *11/16"* Pitch of rivets *4 7/8"*Top of plates or width of butt straps *10 3/4"* Per centages of strength of longitudinal joint *92.6* Working pressure of shell byrules *125 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *3'-3" x 2'-9" x 5/8"* No. and Description of Furnaces in eachboiler *Two corrugated* Material *S* Outside diameter *35 1/2"* Length of plain part *top* Thickness of plates *bottom* *3/8"*Description of longitudinal joint *weld* No. of strengthening rings *none* Working pressure of furnace by the rules *148* Combustion chamberplates: Material *S* Thickness: Sides *5/8"* Back *3/4"* Top *5/8"* Bottom *5/8"* Pitch of stays to ditto: Sides *8 1/2" x 8"* Back *10 1/2" x 9 1/2"*Top *8 1/2" x 10"* If stays are fitted with nuts or riveted heads *Riveted heads* Working pressure by rules *131* Material of stays *S* Area atsmallest part *1.96* Area supported by each stay *4.65* Working pressure by rules *125* End plates in steam space: Material *S* Thickness *1"*Pitch of stays *9 1/4" x 15"* How are stays secured *D. nuts & washers* Working pressure by rules *120* Material of stays *S* Area at smallest part *4.104*Area supported by each stay *3.60* Working pressure by rules *123* Material of Front plates at bottom *S* Thickness *3/4"* Material oflower back plate *S* Thickness *3/4"* Greatest pitch of stays *14 1/4" x 9 1/2"* Working pressure of plate by rules *205* Diameter of tubes *3" set*Pitch of tubes *4 1/4" x 14 1/4"* Material of tube plates *S* Thickness: Front *3/4"* Back *3/4"* Mean pitch of stays *10"* Pitch across widewater spaces *14 1/4"* Working pressures by rules *137* Girders to Chamber tops: Material *S* Depth and thickness oforder at centre *6" x 1"* Length as per rule *25 3/4"* Distance apart *8 1/2"* Number and pitch of Stays in each *2 @ 10"*Working pressure by rules *123* Superheater or Steam chest: how connected to boiler *✓* Can the superheater be shut off and the boiler workedseparately *✓* Diameter *✓* Length *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivetholes *✓* Pitch of rivets *✓* Working pressure of shell by rules *✓* Diameter of flue *✓* Material of flue plates *✓* Thickness *✓*stiffened with rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *✓* How stayed *✓*Working pressure of end plates *✓* Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Pitch of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

Manufacturer.

Dates During progress of work in shops — *1921* *SEPT. 23. OCT. 19. NOV. 4. DEC. 1. 12. 23. 30.* *1922* *JAN. 6. 14. 20. 24. 29.*
 Survey while board vessel — *1922* *FEB. 6. 14. SEP. 21. OCT. 12. 14. 31. NOV. 3. 14. 24. DEC. 4. 9.*
 Total No. of visits *23*

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

W351-0060

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GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c. *This boiler has been built under special survey and in accordance with the Rules & approved plan; the materials and workmanship are sound and good, on completion it was tested by water pressure to 230 lbs & found tight and satisfactory in all respects.*

It has been fitted on board in a satisfactory manner, tried under working conditions and found efficient.

Certificate (if required) to be sent to

(The Surveys are requested not to be written on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	✓	19
Donkey Boiler Fee ...	£	:	:	When received.
Traveling Expenses (if any) £	£	:	:	19

Committee's Minute

FRI. 29 DEC. 1922

Assigned

J. H. Sellers for self & J. H. Mackintosh
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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