

## REPORT ON BOILERS.

No. 12292

WFD. 10 JAN. 1923

Port of *Antwerp*

Received at London Office

No. in Survey held at *Antwerp*

Reg. Book.

Date, first Survey *20 December 1922* Last Survey *8 January 1923*

(Number of Visits)

*64757* on the *S. S. KURMARK.*

Master

Built at *Bremen*By whom built *Pickman & Co. Ltd.*When built *1912*Engine made at *Bremen*By whom made *A. J. Weser.*when made *1912*Boilers made at *Bremen*By whom made *A. J. Weser.*when made *1912*

Registered Horse Power

Owners *Secretary of state for India in Council* Port belonging to *London.*

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel ✓

(Letter for record

Total Heating Surface of Boilers *1875*Is forced draft fitted *Yes.*

No. and Description of

Boilers *3 Multitubular*Working Pressure *192 lb.* Tested by hydraulic pressure to ✓

Date of test ✓

No. of Certificate ✓

Can each boiler be worked separately *Yes.*Area of fire grate in each boiler *75 sq. ft.* No. and Description ofsafety valves to each boiler *2 Spring loaded.*Area of each valve *12.17"* ✓Pressure to which they are adjusted *195 lb.*Are they fitted with easing gear *Yes.*In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *None.*

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers *13' 10.5"* Length *11' 11.5"*

Material of shell plates ✓

Thickness *1.122*

Range of tensile strength ✓

Are the shell plates welded or flanged *Flanged*Descrip. of riveting: cir. seams *double riv.* long. seams *quadruple riv.*diameter of rivet holes in long. seams *1.417* Pitch of rivets *18.9"* ✓Lap of plates or width of butt straps *27.16"*

Per centages of strength of longitudinal joint

rivets *90.*

Working pressure of shell by

rules *190 lbs.* Size of manhole in shell *11.8 x 15.76"*Size of compensating ring *1.26"*

No. and Description of Furnaces in each

boiler *3 Morrison & Co. Ltd.* MaterialOutside diameter *3' 5.5"*

Length of plain part

top

Thickness of plates

crown *0.53"*Description of longitudinal joint *Lap welded*No. of strengthening rings *None*Working pressure of furnace by the rules *197.3 lb.* Combustion chamber

plates: Material ✓

Thickness: Sides *0.63"*Back *0.688"*Top *0.63"*Bottom *0.905"*Pitch of stays to ditto: Sides *7.8 x 7.5* Back *8.2 x 7.5*Top *7.8 x 7.5* If stays are fitted with nuts or riveted heads *None*Working pressure by rules *205 lb.* Material of stays ✓

Diameter at

smallest part *1.5"* Area supported by each stay *58.58 sq. in.*Working pressure by rules *241 lb.* End plates in steam space: Material ✓Thickness *0.905"*Pitch of stays *14 x 16.5"* How are stays secured *double nut*Working pressure by rules *192 lb.* Material of stays ✓Diameter at smallest part *2.68"*Area supported by each stay *234 sq. in.*Working pressure by rules *251 lb.* Material of Front plates at bottom ✓Thickness *1.06"* Material of

Lower back plate ✓

Thickness *0.905"*Greatest pitch of stays *12.4 x 11.5"*Working pressure of plate by rules *225 lb.* Diameter of tubes *3"* ✓Pitch of tubes *4.13 x 4.05"*

Material of tube plates ✓

Thickness: Front *1.06"*Back *0.905"*Mean pitch of stays *12.34 x 8.10"* Pitch across widewater spaces *14.17"*Working pressures by rules *284 lb.*

Girders to Chamber tops: Material ✓

Depth and thickness of

girder at centre *9 1/4 x 5 1/8 x 2"* Length as per rule *2' 6 1/2"*Distance apart *7' 8"*Number and pitch of Stays in each *34 x 7 1/8 pitch*Working pressure by rules *231 lb.* Superheater or Steam chest: how connected to boiler*Schmidt's patent connected to front of boiler.*

Can the superheater be shut off and the boiler worked

separately *Yes.*

Diameter

Length

Thickness of shell plates

Material *C. I.*

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If 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 *1.86 each Valve.* Are they fitted with easing gear *Yes.*

## 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

Lap 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 of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

Is the approved plan of main boiler forwarded herewith

TUES. 29 MAR 1927

FRI. 3 DEC 1926

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

Plans of main boilers enclosed herewith  
The dimensions of the boilers have been verified & found in accordance with the enclosed plans.

The main boilers were examined at Glasgow in February, March 1922 (See letter M 22 November 1922, See Cardiff report N° 43269 for adjusting of main boiler safety valves under steam pressure.

Certificate (if required) to be sent to

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

*Fee to be assigned*

Committee's Minute

Assigned

*John Henderson*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUE. 6 FEB. 1923

FRI. 29 JUN. 1923

FRI. 2 MAY 1924

TUE. DEC. 18 1923

FRI. DEC. 28 1923

TUES. 19 AUG 1924

FRI. 12 NOV 1926

TUES. 18 AUG 1925

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Has a Survey been held on the Machinery of the Ship?  
If so, is the Report sent now, or when will it be sent?

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