

REPORT ON BOILERS.

No. 1586

pt. 5a.

Received at London Office

THU. 11 JAN. 1921

WEST HARTLEPOOL

When handed in at Local Office

4/11 1921. Port of

Date, First Survey 23rd Sept/19. Last Survey 31st Dec/1920

(Number of Visits)

Gross 5321.

Net 3405

When built 1920

When made 1920

When made 1920

Port belonging to Liverpool

Owners

Ellerman (Hall) Line Ltd

Small centre

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

J Spencer & Sons Ltd

Is forced draft fitted **yes**

No. and Description of

Total Heating Surface of Boilers **See other report.**

Working Pressure **225 lb** Tested by hydraulic pressure to **450 lb** Date of test **11.5.20**

Area of fire grate in each boiler **42.64**

Can each boiler be worked separately **yes**

Area of each valve **7.066** Pressure to which they are adjusted **230 lb**

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **yes**

Mean dia. of boilers **13'-6"** Length **12'-6"**

Are the shell plates welded or flanged **yes**

Range of tensile strength **27/31**

Thickness **1 13/32**

Diameter of rivet holes in long. seams **1 13/32** Pitch of rivets **9 3/8**

Per centages of strength of longitudinal joint **87.6%**

Working pressure of shell by **85%**

No. and Description of Furnaces in each

Size of manhole in shell **16" x 20"** Size of compensating ring **2'-8 1/2" x 3'-0 1/2" x 1 1/2"**

Outside diameter **4'-2"** Length of plain part **4'-2"**

Thickness of plates **1 1/16"**

Working pressure of furnace by the rules **226.5** Combustion chamber

Material **Steel** Thickness **1 1/4"**

Sides **8 5/8" x 9"** Back **8 1/4" x 9 1/4"**

Working pressure by rules **229** Material of stays **Steel** Diameter at

End plates in steam space: Material **Steel** Thickness **1 1/4"**

Material of stays **Steel** Diameter at smallest part **6.65**

Material of Front plates at bottom **Steel** Thickness **1 1/16"**

Greatest pitch of stays **15" x 8 1/4"** Working pressure of plate by rules **237** Diameter of tubes **2 1/2"**

Material of tube plates **Steel** Thickness: Front **1 1/16"** Back **1 3/16"** Mean pitch of stays **11 1/4" x 7 1/2"** Pitch across wide

Working pressures by rules **225** Girders to Chamber tops: Material **Steel** Depth and thickness of

Distance apart **8 5/8"** Number and pitch of Stays in each **Three 9"**

Can the superheater be shut off and the boiler worked

Superheater or Steam chest: how connected to boiler **None**

Material **Steel** Description of longitudinal joint **Welded** Diam. of rivet

Working pressure of shell by rules **226** Diameter of flue **13"** Material of flue plates **Steel** Thickness **1 1/16"**

Working pressure by rules **226** End plates: Thickness **1 1/16"** How stayed **Yes**

Area of safety valves to superheater **Yes** Are they fitted with easing gear **Yes**

FOR THE CENTRAL MARINE ENGINE WORKS,
The foregoing is a correct description,

Manufacturer.

MANAGING DIRECTOR, C.M.E.W.

Is the approved plan of boiler forwarded herewith **yes**

Total No. of visits

Dates
Survey
while
building

During progress of
work in shops --
During erection on
board vessel ---

See accompanying
Machinery Report.

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

The three boilers are all considered to be main boilers,
but super heaters are fitted to the large wing boilers only.

Survey Fee ...
Travelling Expenses (if any) £

When applied for, 191
When received, 191

R.D. Shilston
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. JAN. 11 1921

Assigned

004316-004320-0020

Lloyd's Register
Foundation