REPORT ON BOILERS.

No. 17409.

Received at London Office 29 JAN 1919

ing Report 18 Jan 1919 When handed in at Local Office 24 Jan 1919 Port of Greenock

Survey held at Greenock Date, First Survey 6th March, 1918; Last Survey 12th Dec, 1918. (Number of Visits 51.)

on the Steel Steamer MENHIR. Tons { Gross / Net

Built at Cadiz By whom built Echin Larrinaga When built 1919

made at By whom made When made

made at Greenock By whom made John G Kincaid & Co Ltd When made 1919

d Horse Power Owners Port belonging to

Kincaid No 506 A

ITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY.~~ Manufacturers of Steel Spencer Sons & Stewart & Lloyd

or record S) **Total Heating Surface of Boilers** 1443 Is forced draft fitted No See Cert. 12/4/20. **No. and Description of** One Single Ended **Working Pressure** 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 12/12/18

Certificate 1368 Can each boiler be worked separately **Area of fire grate in each boiler** 48.56 No. and Description of

lves to each boiler Area of each valve Pressure to which they are adjusted

fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 13:0 Length 10:6

of shell plates Steel Thickness 1 1/16 Range of tensile strength 28/32 Are the shell plates welded or flanged

of riveting: cir. seams Butt all sin lap long. seams all dble strap Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 8

plates or width of butt straps 16 7/8 Per centages of strength of longitudinal joint rivets 86.98 plate 85.93 Working pressure of shell by

82 lbs Size of manhole in shell 16 × 12 Size of compensating ring Flanged 1 1/16 **No. and Description of Furnaces in each**

Steighton's Material Steel Outside diameter 41 1/4 Length of plain part top / bottom Thickness of plates crown 8/16 bottom

ion of longitudinal joint welded No. of strengthening rings Long Working pressure of furnace by the rules 184 lbs Combustion chamber

Material Steel Thickness: Sides 10/16 Back 10/16 Top 10/16 Bottom 11/16 Pitch of stays to ditto: Sides 8 3/4 × 8 1/2 Back 8 7/16 × 8 5/8

8 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 lbs Material of stays Steel Diameter at

part 1.79 Area supported by each stay 77.4 Working pressure by rules 217 lbs End plates in steam space: Material Steel Thickness 1 1/4

stays 22 5/8 × 17 How are stays secured nuts & nuts Working pressure by rules 181 lbs Material of stays Steel Diameter at smallest part 6.9

pported by each stay 396 Working pressure by rules 181 lbs Material of Front plates at bottom Steel Thickness 1 Material of

ack plate Steel Thickness 13/16 Greatest pitch of stays 13 Working pressure of plate by rules 184 lbs Diameter of tubes 3 1/4

tubes 4 1/2 × 4 7/16 Material of tube plates Steel Thickness: Front 1 Back 12/16 Mean pitch of stays 13 5/16 × 9 Pitch across wide

aces 14 Working pressures by rules 183 lbs Girders to Chamber tops: Material Steel Depth and thickness of

t centre 8 5/8 × 14/16 Length as per rule 30 5/8 Distance apart 8 1/4 Number and pitch of Stays in each two 8 1/2

pressure by rules 184 lbs Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

ly Diameter ~~Length~~ Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules ~~Diameter of flue~~ Material of flue plates Thickness

ed with rings Distance between rings Working pressure by rules End plates: ~~Thickness~~ How stayed

pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

FOR JOHN G. KINCAID & COY., LIMITED.

Robert Green Manufacturer.

(1918) Mar: 6.8.13.20. Apr. 5.11.15.24. May. 29. June. 11.14.18.20.

During progress of work in shops July 17.19.22. Aug: 19.23.28. Sept. 3.5.10.13.16.19.23.25.26.30. Oct. 3.7.11.14.16.21.23.25.31. Nov: 4.7.14.18.20.21.26.29. Is the approved plan of boiler forwarded herewith? Drawings

During erection on board vessel Dec: 4.5.9.11.12:— Total No. of visits 51.

ERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good.

This main Boiler has been constructed under Special Survey in accordance with the approved Plate Print. Tested by hydraulic pressure and found tight and sound. It has now been shipped to Cadiz

vey Fee ... ... £ 4 : 16 : When applied for. 24th Jany. 1919.

velling Expenses (if any)) £ : : When received, 4/2/19 1919 RBW 24/2/20.

James Lowe.

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

FRI, 27 FEB. 1920

nittee's Minute Glasgow 28 JAN 1919

ned TRANSMIT TO LONDON

See Clg fee No 824 attached

W643-0223

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