

REPORT ON BOILERS.

Received at London Office

Date of writing Report 12/2/1920 When handed in at Local Office 12/2/1920 Port of SHEFFIELD

No. in Survey held at **OLDBURY** Date, First Survey 27/6/19 Last Survey 191
 Reg. Book. on the **REINFORCED CONCRETE TUG BOILERS CRETEBLOCK.** (Number of Visits ") Gross Tons Net
 Master Built at By whom built When built
 Engines made at By whom made When made
 Boilers made at **OLDBURY** By whom made **EDWIN DANKS & CO LTD** (Nos. 6060-1.) When made
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **John Spencer & Sons Ltd**
 (Letter for record **S**) Total Heating Surface of Boilers **1280 sq ft** Is forced draft fitted **Yes** No. and Description of Boilers **Two, Multitubular** Working Pressure **180 lb** Tested by hydraulic pressure to **360 lb** Date of test **10/2/20**
 No. of Certificate **428** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **246 sq ft** No. and Description of safety valves to each boiler **Two, direct spring** Area of each valve **4.9 sq in** Pressure to which they are adjusted **185**
 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 **8"** Mean dia. of boilers **9' 5 1/2"** Length **11' 0"**
 Material of shell plates **Steel** Thickness **5/8"** Range of tensile strength **29 3/4/34** Are the shell plates welded or flanged
 Descrip. of riveting: cir. seams **D. Riv** long. seams **D.B. Little** Diameter of rivet holes in long. seams **1 1/8"** Pitch of rivets **5 1/2"**
 Lap of plates or width of butt straps **12 1/4"** Per centages of strength of longitudinal joint rivets **85.8** Working pressure of shell by rules **180 lb** Size of manhole in shell **16" x 12"** Size of compensating ring **7 1/2" x 2 1/2"** No. and Description of Furnaces in each boiler **Two, Cornish** Material **Steel** Outside diameter **36 1/2"** Length of plain part top **7' 2"** Thickness of plates crown **5/8"** bottom **5/8"**
 Description of longitudinal joint **welded** No. of strengthening rings **✓** Working pressure of furnace by the rules **190 lb** Combustion chamber plates: Material **Steel** Thickness: Sides **3/8"** Back **1/2"** Top **3/8"** Bottom **3/4"** Pitch of stays to ditto: Sides **9 1/2" x 9"** Back **9 1/2" x 9"**
 Top **12" x 9"** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **180 lb** Material of stays **steel** Area at smallest part **2.08** Area supported by each stay **85.5** Working pressure by rules **180 lb** End plates in steam space: Material **Steel** Thickness **1 1/8"**
 Pitch of stays **20 1/2" x 14"** How are stays secured **DN & Wukes** Working pressure by rules **180 lb** Material of stays **Steel** Area at smallest part **5.05**
 Area supported by each stay **287 sq in** Working pressure by rules **182 lb** Material of Front plates at bottom **Steel** Thickness **1 1/8"** Material of Lower back plate **Steel** Thickness **1 1/8"** Greatest pitch of stays **12" x 10"** Working pressure of plate by rules **180 lb** Diameter of tubes **2 1/2"**
 Pitch of tubes **3 1/2"** Material of tube plates **Steel** Thickness: Front **1 1/8"** Back **3/4"** Mean pitch of stays **7"** Pitch across wide water spaces **13 1/2"** Working pressures by rules **180 lb** Girders to Chamber tops: Material **Steel** Depth and thickness of girder at centre **9 1/2" x 1 1/4"** Length as per rule **30.5** Distance apart **10"** Number and pitch of Stays in each **Two, 9"**
 Working pressure by rules **220 lb** Steam dome: description of joint to shell **✓** % of strength of joint **✓**
 Diameter **✓** Thickness of shell plates **✓** Material **✓** Description of longitudinal joint **✓** Diam. of rivet holes **✓**
 Pitch of rivets **✓** Working pressure of shell by rules **✓** Crown plates **✓** Thickness **✓** How stayed

SUPERHEATER. 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 **✓**

The foregoing is a correct description,
FOR EDWIN DANKS & COMPANY (OLDBURY) LIMITED.
Chas. A. Smith Manufacturer.

Dates of Survey During progress of (27/6, 10/7, 2/8, 13/9, 3/10, 24/10, 4/11, 21/12/19, 29/1-6/2, 24/2, 28/2) Is the approved plan of boiler forwarded herewith **✓** Manager.
 while building (During erection on board vessel - - -) Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This boiler has been built under Special Survey, the material tested in accordance with the Rules and the workmanship is good.**

GUNDERLAND. These boilers have been satisfactorily fixed in the vessel and their safety valves adjusted under steam

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

Committee's Minute **FRI. SEP. 17 1920**
 Assigned

R. F. Norton & Ed. W. Hutter
 Engineer Surveyors to Lloyd's Register of Shipping.

