

REPORT ON BOILERS.

TUE 17 FEB 1920

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 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 & Co. 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. Lute 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, conical Material Steel Outside diameter 36 1/8" 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 1/8" 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 D.N. Wash Working pressure by rules 180 lb Material of stays Steel Area at smallest part 5.05

Area supported by each stay 289 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. Manufacturer. Chas. A. Smith

Dates of Survey During progress of work in shops - 27/6, 10/7, 2/8, 13/9, 3/10, 24/10, 6/11, 21/12/19, 29/1, 6/2, 21/6, 28/7 Is the approved plan of boiler forwarded herewith ✓ Manager. W. D. B.
while building (During erection on board vessel - - -) 24/9, 16/10, 24/10, 31/10, 14/11, 27/11, 12/12/19, 9/1, 5/2, 10/2/20 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.

SUNDERLAND. 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. Butler
Engineer Surveyors to Lloyd's Register of Shipping.



Lloyd's Register of Shipping