

REPORT ON BOILERS.

No. 367

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Part of SHEFFIELD

WED SEP 18 1920

No. in Survey held at **OLDBURY** Date, First Survey **191** Last Survey **191**
 Reg. Book. **Fitted on board S.S. "SOUTHWAY"** (Number of Visits) **1** Gross Tons **191**
 on the **REINFORCED CONCRETE TUG BOILER No. 6065** Net Tons **191**
 Master **J. Jones** Built at **Montrose** By whom built **Croft Construction Co Ltd** When built **1921**
 Engines made at **Kilmarnock** By whom made **James Ritchie & Co Ltd** When made **1921**
 Boilers made at **OLDBURY** By whom made **EDWIN DANKS & CO LTD** When made **1921**
 Registered Horse Power **191** Owners **(Cande Angel, Capt)** Port belonging to **London**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **John Spencer & Co Ltd**(Letter for record **9**) Total Heating Surface of Boilers **910 sq ft** Is forced draft fitted **No. and Description of**Boilers **One Single Ended, Cyl. Multitubular** Working Pressure **180 lb** Tested by hydraulic pressure to **360 lb** Date of test **3.9.20**No. of Certificate **449** Can each boiler be worked separately **Area of fire grate in each boiler 24 sq ft** No. and Description ofsafety valves to each boiler **Area of each valve** Pressure to which they are adjustedAre they fitted with easing gear **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 **Mean dia. of boilers 9' 5 1/2" Length 11' 0"**Material of shell plates **Steel** Thickness **3 1/2"** Range of tensile strength **29 1/2** Are the shell plates welded or flangedDescrip. of riveting: cir. seams **D. Riv** long. seams **D. Riv** Diameter of rivet holes in long. seams **1 1/2"** Pitch of rivets **5 1/2"**of plates or width of butt straps **12 1/2"** Per centages of strength of longitudinal joint **85.8** Working pressure of shell by**180 lb** Size of manhole in shell **16" x 12"** Size of compensating ring **7 1/2" x 3 1/2"** No. and Description of Furnaces in each**One, conical** Material **Steel** Outside diameter **36 1/2"** Length of plain part **7' 2"** Thickness of plates **1 1/2"**tion of longitudinal joint **welded** No. of strengthening rings **1** Working pressure of furnace by the rules **190 lb** Combustion chamberMaterial **Steel** Thickness: Sides **1 1/2"** Back **1 1/2"** Top **1 1/2"** Bottom **1 1/2"** Pitch of stays to ditto: Sides **9 1/2" x 9"** Back **9 1/2" x 9"**If stays are fitted with nuts or riveted heads **nut** Working pressure by rules **180 lb** Material of stays **Steel** Area atpart **2' 0 1/2"** Area supported by each stay **85.5** Working pressure by rules **180 lb** End plates in steam space: Material **Steel** Thickness **1 1/2"**stays **20 1/2" x 1 1/4"** How are stays secured **D. Riv** Working pressure by rules **180 lb** Material of stays **Steel** Area at smallest part **5' 0 1/2"**supported by each stay **287.0** Working pressure by rules **82 lb** Material of Front plates at bottom **Steel** Thickness **1 1/2"** Material ofback plate **Steel** Thickness **1 1/2"** Greatest pitch of stays **12" x 10"** Working pressure of plate by rules **180 lb** Diameter of tubes **2 1/2"**tubes **3 1/2"** Material of tube plates **Steel** Thickness: Front **1 1/2"** Back **3/4"** Mean pitch of stays **7"** Pitch across widespaces **13 1/2"** Working pressures by rules **180 lb** Girders to Chamber tops: Material **Steel** Depth and thickness ofat centre **9 1/2" x 1 1/4"** Length as per rule **30 1/2"** 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**Material **Thickness of shell plates** Material **Description of longitudinal joint** Diam. of rivet holesof rivets **Working pressure of shell by rules** Crown plates **Thickness** How stayedSUPERHEATER. Type **Date of Approval of Plan** Tested by Hydraulic Pressure toDate 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 fittedFOR EDWIN DANKS & COMPANY (OLDDBURY) LIMITED.
The foregoing is a correct description,J. Henry **Manufacturer**Dates of Survey **During progress of** **3/10. 11/10. 20/10. 24/10. 25/10. 26/10. 27/10. 28/10. 29/10. 30/10. 31/10. 1/11. 2/11. 3/11. 4/11. 5/11. 6/11. 7/11. 8/11. 9/11. 10/11. 11/11. 12/11. 13/11. 14/11. 15/11. 16/11. 17/11. 18/11. 19/11. 20/11. 21/11. 22/11. 23/11. 24/11. 25/11. 26/11. 27/11. 28/11. 29/11. 30/11. 1/12. 2/12. 3/12. 4/12. 5/12. 6/12. 7/12. 8/12. 9/12. 10/12. 11/12. 12/12. 13/12. 14/12. 15/12. 16/12. 17/12. 18/12. 19/12. 20/12. 21/12. 22/12. 23/12. 24/12. 25/12. 26/12. 27/12. 28/12. 29/12. 30/12. 31/12. 1/1. 2/1. 3/1. 4/1. 5/1. 6/1. 7/1. 8/1. 9/1. 10/1. 11/1. 12/1. 13/1. 14/1. 15/1. 16/1. 17/1. 18/1. 19/1. 20/1. 21/1. 22/1. 23/1. 24/1. 25/1. 26/1. 27/1. 28/1. 29/1. 30/1. 31/1. 1/2. 2/2. 3/2. 4/2. 5/2. 6/2. 7/2. 8/2. 9/2. 10/2. 11/2. 12/2. 13/2. 14/2. 15/2. 16/2. 17/2. 18/2. 19/2. 20/2. 21/2. 22/2. 23/2. 24/2. 25/2. 26/2. 27/2. 28/2. 29/2. 30/2. 31/2. 1/3. 2/3. 3/3. 4/3. 5/3. 6/3. 7/3. 8/3. 9/3. 10/3. 11/3. 12/3. 13/3. 14/3. 15/3. 16/3. 17/3. 18/3. 19/3. 20/3. 21/3. 22/3. 23/3. 24/3. 25/3. 26/3. 27/3. 28/3. 29/3. 30/3. 31/3. 1/4. 2/4. 3/4. 4/4. 5/4. 6/4. 7/4. 8/4. 9/4. 10/4. 11/4. 12/4. 13/4. 14/4. 15/4. 16/4. 17/4. 18/4. 19/4. 20/4. 21/4. 22/4. 23/4. 24/4. 25/4. 26/4. 27/4. 28/4. 29/4. 30/4. 31/4. 1/5. 2/5. 3/5. 4/5. 5/5. 6/5. 7/5. 8/5. 9/5. 10/5. 11/5. 12/5. 13/5. 14/5. 15/5. 16/5. 17/5. 18/5. 19/5. 20/5. 21/5. 22/5. 23/5. 24/5. 25/5. 26/5. 27/5. 28/5. 29/5. 30/5. 31/5. 1/6. 2/6. 3/6. 4/6. 5/6. 6/6. 7/6. 8/6. 9/6. 10/6. 11/6. 12/6. 13/6. 14/6. 15/6. 16/6. 17/6. 18/6. 19/6. 20/6. 21/6. 22/6. 23/6. 24/6. 25/6. 26/6. 27/6. 28/6. 29/6. 30/6. 31/6. 1/7. 2/7. 3/7. 4/7. 5/7. 6/7. 7/7. 8/7. 9/7. 10/7. 11/7. 12/7. 13/7. 14/7. 15/7. 16/7. 17/7. 18/7. 19/7. 20/7. 21/7. 22/7. 23/7. 24/7. 25/7. 26/7. 27/7. 28/7. 29/7. 30/7. 31/7. 1/8. 2/8. 3/8. 4/8. 5/8. 6/8. 7/8. 8/8. 9/8. 10/8. 11/8. 12/8. 13/8. 14/8. 15/8. 16/8. 17/8. 18/8. 19/8. 20/8. 21/8. 22/8. 23/8. 24/8. 25/8. 26/8. 27/8. 28/8. 29/8. 30/8. 31/8. 1/9. 2/9. 3/9. 4/9. 5/9. 6/9. 7/9. 8/9. 9/9. 10/9. 11/9. 12/9. 13/9. 14/9. 15/9. 16/9. 17/9. 18/9. 19/9. 20/9. 21/9. 22/9. 23/9. 24/9. 25/9. 26/9. 27/9. 28/9. 29/9. 30/9. 31/9. 1/10. 2/10. 3/10. 4/10. 5/10. 6/10. 7/10. 8/10. 9/10. 10/10. 11/10. 12/10. 13/10. 14/10. 15/10. 16/10. 17/10. 18/10. 19/10. 20/10. 21/10. 22/10. 23/10. 24/10. 25/10. 26/10. 27/10. 28/10. 29/10. 30/10. 31/10. 1/11. 2/11. 3/11. 4/11. 5/11. 6/11. 7/11. 8/11. 9/11. 10/11. 11/11. 12/11. 13/11. 14/11. 15/11. 16/11. 17/11. 18/11. 19/11. 20/11. 21/11. 22/11. 23/11. 24/11. 25/11. 26/11. 27/11. 28/11. 29/11. 30/11. 31/11. 1/12. 2/12. 3/12. 4/12. 5/12. 6/12. 7/12. 8/12. 9/12. 10/12. 11/12. 12/12. 13/12. 14/12. 15/12. 16/12. 17/12. 18/12. 19/12. 20/12. 21/12. 22/12. 23/12. 24/12. 25/12. 26/12. 27/12. 28/12. 29/12. 30/12. 31/12. 1/1. 2/1. 3/1. 4/1. 5/1. 6/1. 7/1. 8/1. 9/1. 10/1. 11/1. 12/1. 13/1. 14/1. 15/1. 16/1. 17/1. 18/1. 19/1. 20/1. 21/1. 22/1. 23/1. 24/1. 25/1. 26/1. 27/1. 28/1. 29/1. 30/1. 31/1. 1/2. 2/2. 3/2. 4/2. 5/2. 6/2. 7/2. 8/2. 9/2. 10/2. 11/2. 12/2. 13/2. 14/2. 15/2. 16/2. 17/2. 18/2. 19/2. 20/2. 21/2. 22/2. 23/2. 24/2. 25/2. 26/2. 27/2. 28/2. 29/2. 30/2. 31/2. 1/3. 2/3. 3/3. 4/3. 5/3. 6/3. 7/3. 8/3. 9/3. 10/3. 11/3. 12/3. 13/3. 14/3. 15/3. 16/3. 17/3. 18/3. 19/3. 20/3. 21/3. 22/3. 23/3. 24/3. 25/3. 26/3. 27/3. 28/3. 29/3. 30/3. 31/3. 1/4. 2/4. 3/4. 4/4. 5/4. 6/4. 7/4. 8/4. 9/4. 10/4. 11/4. 12/4. 13/4. 14/4. 15/4. 16/4. 17/4. 18/4. 19/4. 20/4. 21/4. 22/4. 23/4. 24/4. 25/4. 26/4. 27/4. 28/4. 29/4. 30/4. 31/4. 1/5. 2/5. 3/5. 4/5. 5/5. 6/5. 7/5. 8/5. 9/5. 10/5. 11/5. 12/5. 13/5. 14/5. 15/5. 16/5. 17/5. 18/5. 19/5. 20/5. 21/5. 22/5. 23/5. 24/5. 25/5. 26/5. 27/5. 28/5. 29/5. 30/5. 31/5. 1/6. 2/6. 3/6. 4/6. 5/6. 6/6. 7/6. 8/6. 9/6. 10/6. 11/6. 12/6. 13/6. 14/6. 15/6. 16/6. 17/6. 18/6. 19/6. 20/6. 21/6. 22/6. 23/6. 24/6. 25/6. 26/6. 27/6. 28/6. 29/6. 30/6. 31/6. 1/7. 2/7. 3/7. 4/7. 5/7. 6/7. 7/7. 8/7. 9/7. 10/7. 11/7. 12/7. 13/7. 14/7. 15/7. 16/7. 17/7. 18/7. 19/7. 20/7. 21/7. 22/7. 23/7. 24/7. 25/7. 26/7. 27/7. 28/7. 29/7. 30/7. 31/7. 1/8. 2/8. 3/8. 4/8. 5/8. 6/8. 7/8. 8/8. 9/8. 10/8. 11/8. 12/8. 13/8. 14/8. 15/8. 16/8. 17/8. 18/8. 19/8. 20/8. 21/8. 22/8. 23/8. 24/8. 25/8. 26/8. 27/8. 28/8. 29/8. 30/8. 31/8. 1/9. 2/9. 3/9. 4/9. 5/9. 6/9. 7/9. 8/9. 9/9. 10/9. 11/9. 12/9. 13/9. 14/9. 15/9. 16/9. 17/9. 18/9. 19/9. 20/9. 21/9. 22/9. 23/9. 24/9. 25/9. 26/9. 27/9. 28/9. 29/9. 30/9. 31/9. 1/10. 2/10. 3/10. 4/10. 5/10. 6/10. 7/10. 8/10. 9/10. 10/10. 11/10. 12/10. 13/10. 14/10. 15/10. 16/10. 17/10. 18/10. 19/10. 20/10. 21/10. 22/10. 23/10. 24/10. 25/10. 26/10. 27/10. 28/10. 29/10. 30/10. 31/10. 1/11. 2/11. 3/11. 4/11. 5/11. 6/11. 7/11. 8/11. 9/11. 10/11. 11/11. 12/11. 13/11. 14/11. 15/11. 16/11. 17/11. 18/11. 19/11. 20/11. 21/11. 22/11. 23/11. 24/11. 25/11. 26/11. 27/11. 28/11. 29/11. 30/11. 31/11. 1/12. 2/12. 3/12. 4/12. 5/12. 6/12. 7/12. 8/12. 9/12. 10/12. 11/12. 12/12. 13/12. 14/12. 15/12. 16/12. 17/12. 18/12. 19/12. 20/12. 21/12. 22/12. 23/12. 24/12. 25/12. 26/12. 27/12. 28/12. 29/12. 30/12. 31/12. 1/1. 2/1. 3/1. 4/1. 5/1. 6/1. 7/1. 8/1. 9/1. 10/1. 11/1. 12/1. 13/1. 14/1. 15/1. 16/1. 17/1. 18/1. 19/1. 20/1. 21/1. 22/1. 23/1. 24/1. 25/1. 26/1. 27/1. 28/1. 29/1. 30/1. 31/1. 1/2. 2/2. 3/2. 4/2. 5/2. 6/2. 7/2. 8/2. 9/2. 10/2. 11/2. 12/2. 13/2. 14/2. 15/2. 16/2. 17/2. 18/2. 19/2. 20/2. 21/2. 22/2. 23/2. 24/2. 25/2. 26/2. 27/2. 28/2. 29/2. 30/2. 31/2. 1/3. 2/3. 3/3. 4/3. 5/3. 6/3. 7/3. 8/3. 9/3. 10/3. 11/3. 12/3. 13/3. 14/3. 15/3. 16/3. 17/3. 18/3. 19/3. 20/3. 21/3. 22/3. 23/3. 24/3. 25/3. 26/3. 27/3. 28/3. 29/3. 30/3. 31/3. 1/4. 2/4. 3/4. 4/4. 5/4. 6/4. 7/4. 8/4. 9/4. 10/4. 11/4. 12/4. 13/4. 14/4. 15/4. 16/4. 17/4. 18/4. 19/4. 20/4. 21/4. 22/4. 23/4. 24/4. 25/4. 26/4. 27/4. 28/4. 29/4. 30/4. 31/4. 1/5. 2/5. 3/5. 4/5. 5/5. 6/5. 7/5. 8/5. 9/5. 10/5. 11/5. 12/5. 13/5. 14/5. 15/5. 16/5. 17/5. 18/5. 19/5. 20/5. 21/5. 22/5. 23/5. 24/5. 25/5. 26/5. 27/5. 28/5. 29/5. 30/5. 31/5. 1/6. 2/6. 3/6. 4/6. 5/6. 6/6. 7/6. 8/6. 9/6. 10/6. 11/6. 12/6. 13/6. 14/6. 15/6. 16/6. 17/6. 18/6. 19/6. 20/6. 21/6. 22/6. 23/6. 24/6. 25/6. 26/6. 27/6. 28/6. 29/6. 30/6. 31/6. 1/7. 2/7. 3/7. 4/7. 5/7. 6/7. 7/7. 8/7. 9/7. 10/7. 11/7. 12/7. 13/7. 14/7. 15/7. 16/7. 17/7. 18/7. 19/7. 20/7. 21/7. 22/7. 23/7. 24/7. 25/7. 26/7. 27/7. 28/7. 29/7. 30/7. 31/7. 1/8. 2/8. 3/8. 4/8. 5/8. 6/8. 7/8. 8/8. 9/8. 10/8. 11/8. 12/8. 13/8. 14/8. 15/8. 16/8. 17/8. 18/8. 19/8. 20/8. 21/8. 22/8. 23/8. 24/8. 25/8. 26/8. 27/8. 28/8. 29/8. 30/8. 31/8. 1/9. 2/9. 3/9. 4/9. 5/9. 6/9. 7/9. 8/9. 9/9. 10/9. 11/9. 12/9. 13/9. 14/9. 15/9. 16/9. 17/9. 18/9. 19/9. 20/9. 21/9. 22/9. 23/9. 24/9. 25/9. 26/9. 27/9. 28/9. 29/9. 30/9. 31/9. 1/10. 2/10. 3/10. 4/10. 5/10. 6/10. 7/10. 8/10. 9/10. 10/10. 11/10. 12/10. 13/10. 14/10. 15/10. 16/10. 17/10. 18/10. 19/10. 20/10. 21/10. 22/10. 23/10. 24/10. 25/10. 26/10. 27/10. 28/10. 29/10. 30/10. 31/10. 1/11. 2/11. 3/11. 4/11. 5/11. 6/11. 7/11. 8/11. 9/11. 10/11. 11/11. 12/11. 13/11. 14/11. 15/11. 16/11. 17/11. 18/11. 19/11. 20/11. 21/11. 22/11. 23/11. 24/11. 25/11. 26/11. 27/11. 28/11. 29/11. 30/11. 31/11. 1/12. 2/12. 3/12. 4/12. 5/12. 6/12. 7/12. 8/12. 9/12. 10/12. 11/12. 12/12. 13/12. 14/12. 15/12. 16/12. 17/12. 18/12. 19/12. 20/12. 21/12. 22/12. 23/12. 24/12. 25/12. 26/12. 27/12. 28/12. 29/12. 30/12. 31/12. 1/1. 2/1. 3/1. 4/1. 5/1. 6/1. 7/1. 8/1. 9/1. 10/1. 11/1. 12/1. 13/1. 14/1. 15/1. 16/1. 17/1. 18/1. 19/1. 20/1. 21/1. 22/1. 23/1. 24/1. 25/1. 26/1. 27/1. 28/1. 29/1. 30/1. 31/1. 1/2. 2/2. 3/2. 4/2. 5/2. 6/2. 7/2. 8/2. 9/2. 10/2. 11/2. 12/2. 13/2. 14/2. 15/2. 16/2. 17/2. 18/2. 19/2. 20/2. 21/2. 22/2. 23/2. 24/2. 25/2. 26/2. 27/2. 28/2. 29/2. 30/2. 31/2. 1/3. 2/3. 3/3. 4/3. 5/3. 6/3. 7/3. 8/3. 9/3. 10/3. 11/3. 12/3. 13/3. 14/3. 15/3. 16/3. 17/3. 18/3. 19/3. 20/3. 21/3. 22/3. 23/3. 24/3. 25/3. 26/3. 27/3. 28/3. 29/3. 30/3. 31/3. 1/4. 2/4. 3/4. 4/4. 5/4. 6/4. 7/4. 8/4. 9/4. 10/4. 11/4. 12/4. 13/4. 14/4. 15/4. 16/4. 17/4. 18/4. 19/4. 20/4. 21/4. 22/4. 23/4. 24/4. 25/4. 26/4. 27/4. 28/4. 29/4. 30/4. 31/4. 1/5. 2/5. 3/5. 4/5. 5/5. 6/5. 7/5. 8/5. 9/5. 10/5. 11/5. 12/5. 13/5. 14/5. 15/5. 16/5. 17/5. 18/5. 19/5. 20/5. 21/5. 22/5. 23/5. 24/5. 25/5. 26/5. 27/5. 28/5. 29/5. 30/5. 31/5. 1/6. 2/6. 3/6. 4/6. 5/6. 6/6. 7/6. 8/6. 9/6. 10/6. 11/6. 12/6. 13/6. 14/6. 15/6. 16/6. 17/6. 18/6. 19/6. 20/6. 21/6. 22/6. 23/6. 24/6. 25/6. 26/6. 27/6. 28/6. 29/6. 30/6. 31/6. 1/7. 2/7. 3/7. 4/7. 5/7. 6/7. 7/7. 8/7. 9/7. 10/7. 11/7. 12/7. 13/7. 14/7. 15/7. 16/7. 17/7. 18/7. 19/7. 20/7. 21/7. 22/7. 23/7. 24/7. 25/7. 26/7. 27/7. 28/7. 29/7. 30/7. 31/7. 1/8. 2/8. 3/8. 4/8. 5/8. 6/8. 7/8. 8/8. 9/8. 10/8. 11/8. 12/8. 13/8. 14/8. 15/8. 16/8. 17/8. 18/8. 19/8. 20/8. 21/8. 22/8. 23/8. 24/8. 25/8. 26/8. 27/8. 28/8. 29/8. 30/8. 31/8. 1/9. 2/9. 3/9. 4/9. 5/9. 6/9. 7/9. 8/9. 9/9. 10/9. 11/9. 12/9. 13/9. 14/9. 15/9. 16/9. 17/9. 18/9. 19/9. 20/9. 21/9. 22/9. 23/9. 24/9. 25/9. 26/9. 27/9. 28/9. 29/9. 30/9. 31/9. 1/10. 2/10. 3/10. 4/10. 5/10. 6/10. 7/10. 8/10. 9/10. 10/10. 11/10. 12/10. 13/10. 14/10. 15/10. 16/10. 17/10. 18/10. 19/10. 20/10. 21/10. 22/10. 23/10. 24/10. 25/10. 26/10. 27/10. 28/10. 29/10. 30/10. 31/10. 1/11. 2/11. 3/11. 4/11. 5/11. 6/11. 7/11. 8/11. 9/11. 10/11. 11/11. 12/11. 13/11. 14/11. 15/11. 16/11. 17/11. 18/11. 19/11. 20/11. 21/11. 22/11. 23/11. 24/11. 25/11. 26/11. 27/11. 28/11. 29/11. 30/11. 31/11. 1/12. 2/12. 3/12. 4/12. 5/12. 6/12. 7/12. 8/12. 9/12. 10/12. 11/12. 12/12. 13/12. 14/12. 15/12. 16/12. 17/12. 18/12. 19/12. 20/12. 21/12. 22/12. 23/12. 24/12. 25/12. 26/12. 27/12. 28/12. 29/12. 30/12. 31/12. 1/1. 2/1. 3/1. 4/1. 5/1. 6/1. 7/1. 8/1. 9/1. 10/1. 11/1. 12/1. 13/1. 14/1. 15/1. 16/1. 17**