

REPORT ON BOILERS.

No. 75707

Received at London Office

Date of writing Report 10 When handed in at Local Office 17.7.1922 Port of **NEWCASTLE ON TYNE** TUE 18 JUL 1922
 No. in Survey held at Date, First Survey 22 Feb/21 Last Survey 14 July 1922
 Reg. Book. (Number of Visits) Gross
 on the **SADARPUR** Tons } Net

Master Built at **Newcastle** By whom built **R. W. Hawthorn Leslie & Co. Ltd. No. 528** When built **1921**
 Engines made at **Newcastle-on-Tyne** By whom made **R. W. Hawthorn Leslie & Co. Ltd. No. 3488** When made **1922**
 Boilers made at **do.** By whom made **do.** When made **1922**
 Registered Horse Power Owners **Burmah Oil Co. Ltd.** Port belonging to **Rangoon**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **J. Spencer & Sons Ltd.**

(Letter for record **S.**) Total Heating Surface of Boilers **1616 sq ft** Is forced draft fitted **yes** No. and Description of

Boilers **One single-end multitubular** Working Pressure **180 lbs** Tested by hydraulic pressure to **320 lbs** Date of test **9.6.21**

No. of Certificate **9569** Can each boiler be worked separately **✓** Area of fire grate in each boiler **Oil-fired** No. and Description of

safety valves to each boiler **2: direct spring loaded** Area of each valve **7.06 sq in** Pressure to which they are adjusted **186 lbs**

Are they fitted with easing gear **400** 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 **24"** Mean ^{Sub} dia. of boilers **12'-6"** Length **11'-6"**

Material of shell plates **Steel** Thickness **1 1/8"** Range of tensile strength **28/32 50"** Are the shell plates welded or flanged **No.**

Descrip. of riveting: cir. seams **S.R. lap** long. seams **T.R., J.B.S.** Diameter of rivet holes in long. seams **1 1/2"** Pitch of rivets **8"**

Lap of plates or width of butt straps **17 1/8"** Per centages of strength of longitudinal joint rivets **90** Working pressure of shell by plate **85.9**

rules **187** Size of manhole in shell **16"x12"** Size of compensating ring **39 1/2 x 36 x 1 1/2** No. and Description of Furnaces in each

boiler **3 Deighton's** Material **Steel** Outside diameter **40 1/4"** Length of plain part ^{top} Thickness of plates ^{bottom} **15" / 13 1/2"**

Description of longitudinal joint **welded** No. of strengthening rings **✓** Working pressure of furnace by the rules **181** Combustion chamber

plates: Material **Steel** Thickness: Sides **1 1/8"** Back **3/8"** Top **1 1/8"** Bottom **7/8"** Pitch of stays to ditto: Sides **10"x9"** Back **9 1/2"x7 1/8"**

Top **10"x9"** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **25 3/4** Material of stays **Steel** Area at

smallest part **2.360** Area supported by each stay **900** Working pressure by rules **238** End plates in steam space: Material **Steel** Thickness **1 1/2"**

Pitch of stays **24"x16"** How are stays secured **J.N. & W.** Working pressure by rules **184** Material of stays **Steel** Area at smallest part **6.670**

Area supported by each stay **3840** Working pressure by rules **192** Material of Front plates at bottom **Steel** Thickness **7/8"** Material of

Lower back plate **Steel** Thickness **7/8"** Greatest pitch of stays **15"** Working pressure of plate by rules **219** Diameter of tubes **2 1/4"**

Pitch of tubes **4"x3 7/8"** Material of tube plates **Steel** Thickness: Front **7/8"** Back **3/4"** Mean pitch of stays **7 1/8"** Pitch across wide

water spaces **14"** Working pressures by rules **210** Girders to Chamber tops: Material **Steel** Depth and thickness of

girder at centre **10"x1 1/2"** Length as per rule **3 1/8"** Distance apart **10"** Number and pitch of Stays in each **2-9"**

Working pressure by rules **250** Steam dome: description of joint to shell **None** % 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 **horizontal**. 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,



Manufacturer

Dates of Survey } During progress of work in shops - - } **See Machinery Report.** Is the approved plan of boiler forwarded herewith **Yes.**
 while building } During erection on board vessel - - - }
 Total No. of visits _____

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

This Auxiliary Boiler was built under special survey and the materials and workmanship are good. For recommendations, see accompanying sheet.

Survey Fee ... £ **See accompanying mach. report.** When applied for, ... 19...
 Travelling Expenses (if any) £ ... When received, ... 19...

Committee's Minute **FRI. JUL. 21 1922** **W. R. Austin** Engineer Surveyor to Lloyd's Register of Shipping.

Assigned **See Other T.C. Rpt**