

REPORT ON BOILERS.

No. 56643

Date of writing Report 19 29. 2. 36 When handed in at Local Office Port of Glasgow Received at London Office -4 MAR '36

No. in Survey held at Clydebank Date, First Survey 24. 6. 35 Last Survey 2. 3. 1936

eg. Book. on the "Comanche" (Number of Visits -) Gross 6837 Tons Net 3967

Master Built at Clydebank By whom built John Brown & Co. Ltd. When built 1936

Boilers made at Clydebank By whom made John Brown & Co. Ltd. When made 1936

Owners Anglo American Oil Co. Ltd. Port belonging to Glasgow

EXHAUST HEAT. VERTICAL DONKEY BOILER— No. One. Description CLARKSON TYPE Manufacturers of steel Colvilles Ltd.

Made at Clydebank By whom made John Brown & Co. Ltd. When made 1935. Where fixed on flat after end E.R. Working pressure 125 lb.

Tested by hydraulic pressure to 240 Date of test 23/12/35. No. of Certificate 19662 Fire grate area Description of safety valves J.H.Z.D.S.T.

No. of safety valves 1 Area of each 3.534 Pressure to which they are adjusted 130 If fitted with easing gear 70 If steam from main boilers can enter the donkey boiler (N) Diameter of donkey boiler 6' 3 1/2" Length 13'-0" Material of shell plates Steel Thickness 15/32"

Range of tensile strength 28/32 Tons Description of riveting long. seams D.R.-D.B.S. Diameter of rivet holes 25/32" Whether punched or drilled drilled Pitch of rivets 2 7/8" THICKNESS OF BUTTS 1/16" ALL. Rivets 107 Working pressure of shell by plates 72.6

Plates 124 lb. Thickness of shell crown plates 7/8" Radius of do. 6'-0" No. of stays to do. Diameter of stays Diameter of furnace—Top Bottom INT. DIA. OF UPTAKE 1'-10 3/4" UPTAKE Thickness of furnace side plates 9/16" Description of joint weld Working pressure of furnace by rules 300 lb. Thickness of Ogee ring 1 1/16" Working pressure of Ogee ring by rules 650 lb. Thickness of furnace crown plates Radius of do. Stayed by Cylindrical Tube plate, joint electrically welded & annealed. Tensile strength 26/30 Tons

Plates Thickness of tube plates front 1 1/16" back Mean pitch of stay tubes in nest Pitch in outer vertical rows

all diameter of tube holes FRONT 3 1/4" BACK 3 1/4" Working pressure of tube plates by rules 480 lb. Tubes: Material Steel (Thimble Type)

External diameter of tube plate 3 1/4" Thickness 9wg. No. of threads per inch Pitch of tubes 3 1/2" V.P. -6.149. H.P.

Working pressure by rules 180 lb. Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating rings 4 5/8" x 3/4" No. of rivets and diameter of rivet holes 40 - 25/32" Outer row pitch at ends 3.3"

John Brown & Company, Limited.

The foregoing is a correct description,

Robert Clerk Secretary Manufacturer. Drawing No. 3421 by Clarkson Thimble Tube Co.

Dates of Survey while building During progress of work in shops - During erection on board vessel - Total No. of visits

SEE ACCOMPANYING MACHINERY REPORT. Is the approved plan of boiler forwarded herewith yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan and the Society's Rules and requirements the materials and workmanship are good it has been securely fitted on board and satisfactorily tried under steam

29/2/36

Survey Fee ... £ : : When applied for 19

Travelling Expenses (if any) £ : : When received 19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3-MAR 1936 Assigned SEE ACCOMPANYING MACHINERY REPORT.