

REPORT ON WATER TUBE BOILERS.

No. 16800

Received at London Office

Date of writing Report 20th April 1926 When handed in at Local Office

19

Port of

HAMBURG

No. in Survey held at TIEL Date, First Survey 17th Sept. 1925 Last Survey 14th April 1926
 Reg. Bk. 38524 on the Steel Twin Sc Motor V. CANADOLITE Number of Visits 14
 Master Built at TIEL By whom built FRIED. KRUPP. GERMANIAWERFT When built 1926
 Engines made at TIEL By whom made FRIED. KRUPP. GERMANIAWERFT. A.G. When made 1926
 Boilers made at TIEL By whom made FRIED. KRUPP. GERMANIAWERFT. A.G. When made 1926
 Registered Horse Power 908 Owners IMPERIAL OIL CO. Port belonging to TORONTO.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Fried. Krupp. A.G. Essen.

(Letter for Record S. 2 Water Tube) Date of Approval of plan 18/5/24 Number and Description or Type of Boilers 2 W.T. & Donkey Boilers Working Pressure 200 lb. Tested by Hydraulic Pressure to 400 lb. Date of Test 5.1.26.
 No. of Certificate 409-410 Can each boiler be worked separately. yes Total Heating Surface of Boilers 280 sq. ft.
 Is forced draught fitted. yes Area of fire grate (coal) in each Boiler oil fired Total grate area of boilers in vessel including Main and Auxiliary No. and type of burners (oil) in each boiler 3 8 hole burners No and description of safety valves on each boiler 2 Spring loaded Area of each valve 70 sq. in. Pressure to which they are adjusted 200 lb.
 Are they fitted with easing gear. yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler (as per return valve) Smallest distance between boilers or uptakes and bunkers 2000 in. Height of Boiler 4707 in. Width and Length 33 1/5 in. - 4600 in.
Steam Drums:—Number in each boiler Inside diameter 1400 in. Material of plates Steel Thickness 22.5 in.
 Range of Tensile Strength 44-50 kg/cm² Are drum shell plates welded or flanged Flanged Description of riveting:—
 Cir. seams 6 in. dia. long. seams 6 in. dia. Diameter of rivet holes in long. seams 28 in. Pitch of Rivets 93 in.
 Lap of plate or width of butt straps 208 in. Thickness of straps 17 in. Percentage strength of long. joint:—Plate 70% Ricet 91.5%
 Diameter of tube holes in drum 95 in. Pitch of tube holes 185 in. Percentage strength of shell in way of tubes 48.6%
 If Drum has a flat side state method of staying Depth and thickness of girders at centre (if fitted) Distance apart Number and pitch of stays in each Working pressure by rules 14.05 kg/cm² **Steam Drum Heads or Ends:**—Material Steel Thickness 14 in. - 27 in. Radius or how stayed 1260 in.
 Size of Manhole or Handhole 300 x 400 in. **Water Drums:**—Number in each boiler Inside Diameter Material of plates Thickness Range of tensile strength Are drum shell plates welded or flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in long. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps
 Percentage strength of long. joint:—Plate Ricet Diameter of tube holes in drum Pitch of tube holes
 Percentage strength of drum shell in way of tubes **Water Drum Heads or Ends:**—Material Thickness Radius or how stayed Size of manhole or handhole **Headers or Sections:**—Number 2
 Material Steel Thickness 22 in. Tested by Hydraulic Pressure to 400 lb. Material of Stays Steel
 Area at smallest part 29 in. Area supported by each stay 224 sq. in. Working Pressure by Rules Tubes:—Diameter 95 in.
 Thickness 5.5 in. - 4.5 in. Number 177. **Steam Dome or Collector:**—Description of Joint to Shell Percentage strength of Joint Diameter Thickness of shell plates Material
 Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell by Rules Crown or End Plates:—Material Thickness How stayed

UPERHEATER. 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 Is a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes
 Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

FRIED. KRUPP
GERMANIAWERFT
Aktiengesellschaft

Manufacturer.

Dates of Survey During progress of work in shops 17/9-6/10-16/10-24/10-3/11-24/11-14/12-11/1-15/12/25-5/1/26 Is the approved plan of boiler forwarded herewith 16/7/26.
 while building During erection on board vessel 12/3-23/3-31/3-14/4/26 Total No. of visits 14.

GENERAL REMARKS

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

Material & workmanship of these boilers are of good quality. The materials used in the construction are made at works recognized by the Committee and tested by the Society's Surveyor in accordance with the Rules. These boilers having been built under Special Survey in conformity with the approved plan, the Surveyor's letter and otherwise in accordance with the requirements of the Rules are eligible in my opinion for record N.D.B.(WT)-26.

Survey Fee £ 8. : 8. : When applied for 24th April 1926.
 Travelling Expenses (if any) £ : : When received, 14th May 1926.

Committee's Minute

FRI. 30 APR 1926

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

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Foundation
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