

REPORT ON WATER TUBE BOILERS.

No. 16800

Received at London Office

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

Port of HAMBURG

26 APR 1926

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 Gross 11309 Tons
 Master Built at TIEL By whom built FRIED. KRUPP - GERMANIA WERFT When built 1926
 Engines made at TIEL By whom made FRIED. KRUPP - GERMANIA WERFT When made 1926
 Boilers made at TIEL By whom made FRIED. KRUPP - GERMANIA WERFT 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 No. and type of burners (oil) in each boiler 3 Doherty 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 W.T. boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers 2000 in. Height of Boiler 4707 in. Width and Length 33 1/2 in. x 4600 in.
Steam Drums:—Number in each boiler 1 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 double riv. long. seams double butt. 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 no Depth and thickness of girders at centre (if fitted) no
 Distance apart no Number and pitch of stays in each no Working pressure by rules 14.05 kg/cm²
Steam Drum Heads or Ends:—Material Steel Thickness 24 in. - 27 in. Radius or how stayed 1260 in.
 Size of Manhole or Handhole 300 x 400 in. **Water Drums:**—Number in each boiler no Inside Diameter no
 Material of plates no Thickness no Range of tensile strength no Are drum shell plates welded or flanged no
 Description of riveting:—Cir. seams no long. seams no Diameter of Rivet Holes in long. seams no Pitch of rivets no Lap of plates or width of butt straps no Thickness of straps no
 Percentage strength of long. joint:—Plate no Ricet no Diameter of tube holes in drum no Pitch of tube holes no
 Percentage strength of drum shell in way of tubes no **Water Drum Heads or Ends:**—Material no Thickness no
 Radius or how stayed no Size of manhole or handhole no **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 no **Tubes:**—Diameter 95 in.
 Thickness 5.5 in. - 4.5 in. Number 177 **Steam Dome or Collector:**—Description of Joint to Shell no
 Percentage strength of Joint no Diameter no Thickness of shell plates no Material no
 Description of longitudinal joint no Diameter of Rivet Holes no Pitch of Rivets no Working Pressure of shell by Rules no
Crown or End Plates:—Material no Thickness no How stayed no

UPERHEATER. Type no Date of Approval of Plan no Tested by Hydraulic Pressure to no
 Date of Test no Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler no
 Diameter of Safety Valve no Pressure to which each is adjusted no Is easing gear fitted no
 Is a drain cock or valve fitted at lowest point of superheater no Number, diameter, and thickness of tubes no

Spare Gear. Tubes no Gaskets or joints:—Manhole no Handhole no Handhole plates no

FRIED. KRUPP
 The foregoing is a correct description,
GERMANIA WERFT
 Aktiengesellschaft Manufacturer.

Dates of Survey } During progress of work in shops 17/9-6/10-16/10-24/10-3/11-24/11-4/12-11/12-15/12/25-5/1/26 Is the approved plan of boiler forwarded herewith yes
 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 Surveyors in accordance with the Rules. These boilers having been built under Special Survey in conformity with the approved plan, the Secretary'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 5 1926

Friedrich Hill
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 30 APR 1926

Assigned

