

REPORT ON MACHINERY.

No. 42635

WED. 31 DEC. 1919

Port of NEWCASTLE ON TYNE

Received at London Office

To. in Survey held at South Shields Date, first Survey 2nd Dec Last Survey 23rd Dec 1919Book. SS "Inconell" ex SS "War Stag" (Number of Vols. 4)Built at Sunderland By whom built W. Doreford & Son Ltd. Tons Gross 5249
Net 3178When built 1918 when made 1918When made 1918Registered Horse Power 517 Owners Hain SS Co Ltd (E. Hain & Son Mgrs) Port belonging to St. Jms.Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted YesGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3No. of Cylinders 27. 44. 73 Length of Stroke 48 Revs. per minute 77 Dia. of Screw shaft as per rule 14. 66 Material of S
as fitted 15. 5. 5 screw shaft)Is the after end of the liner made water tight YesIf the liner does not fit tightly at the part YesIf the liner does not fit tightly at the part YesIf the liner does not fit tightly at the part YesLength of stern bush 5' 0 1/2Dia. of Crank shaft journals as per rule 14. 66 Dia. of Crank pin 14 1/2 Size of Crank webs 9 x 22 1/2 Dia. of thrust shaft underPitch of Screw 16 - 6 No. of Blades 4 State whether moveable No Total surface 98. 2. 2Can one be overhauled while the other is at work YesCan one be overhauled while the other is at work Yes

No. and size of Suctions connected to both Bilge and Donkey pumps

In Holds, &c. Two 3 1/2 in Nos 1, 2, 3, holds + 1 in No 4Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible YesAre they Valves or Cocks BothAre the Discharge Pipes above or below the deep water line BothAre the Blow Off Cocks fitted with a spigot and brass covering plate YesHow are they protected wood casingAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges YesScrew shaft and Propeller YesIs it fitted with a watertight door Yes worked from Top platformManufacturers of Steel SIs Forced Draft fitted Yes No. and Description of Boilers 3 Single EndedNo. of Certificate YesArea of fire grate in each boiler 63. 3. 3 No. and Description of Safety Valves toArea of each valve 9. 6. 6 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear YesMean dia. of boilers 15' 6" Length 11' 6" Material of shell plates SRange of tensile strength 28/32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams 2 LapPitch of rivets 9 1/8 Lap of plates or width of butt straps 19 1/2Working pressure of shell by rules 182 Size of manhole in shell 16" x 12"No. and Description of Furnaces in each boiler 3 Brighton Material S Outside diameter 50 3/16Thickenss of plates 19/32 Description of longitudinal joint Welded No. of strengthening rings 1Combustion chamber plates: Material S Thickness: Sides 23/32 Back 1/16 Top 23/32 Bottom 23/32If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181Working pressure by rules 216 End plates in steam spaceWorking pressure by rules 180 Material of stays SteelMaterial of Front plates at bottom SteelWorking pressure of plate by rules 187Material of tube plates Steel Thickness: Front 3/32 Back 3/4 Mean pitch of stays 9 1/8Working pressures by rules 182 Girders to Chamber tops: Material Steel Depth andDistance apart 10 5/8 Number and pitch of stays in each 3, 7 1/4Superheater or Steam chest; how connected to boiler Yes Can the superheater be shut off and the boiler workedDiameter Yes Length Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivetPitch of rivets Yes Working pressure of shell by rules Yes Diameter of flue Yes Material of flue plates Yes Thickness YesEnd plates: Thickness Yes How stayed YesArea of safety valves to superheater Yes Are they fitted with easing gear Yes

VERTICAL DONKEY BOILER—Manufacturers of Steel

No. *100* Description *Donkey Boiler*
 Made at *London* By whom made *W. L. Hall* When made *1919* Where fixed *on ship*
 Working pressure *150* tested by hydraulic pressure to *200* Date of test *2/12/19* No. of Certificate *100* Fire grate area *8* Description of *Donkey Boiler*
 Valves *1* No. of Safety Valves *1* Area of each *1* Pressure to which they are adjusted *150* Date of adjustment *2/12/19*
 If fitted with easing gear *1* If steam from main boilers can enter the donkey boiler *1* Dia. of donkey boiler *1* Length *1*
 Material of shell plates *1* Thickness *1* Range of tensile strength *1* Descrip. of riveting long. seams *1*
 Dia. of rivet holes *1* Whether punched or drilled *1* Pitch of rivets *1* Lap of plating *1* Per centage of strength of joint *1*
 Working pressure of shell by rules *1* Thickness of shell crown plates *1* Radius of do. *1* No. of stays to do. *1* Dia. of stays *1*
 Diameter of furnace Top *1* Bottom *1* Length of furnace *1* Thickness of furnace plates *1* Description of joint *1*
 Working pressure of furnace by rules *1* Thickness of furnace crown plates *1* Stayed by *1*
 Diameter of uptake *1* Thickness of uptake plates *1* Thickness of water tubes *1* Dates of survey *1*

SPARE GEAR. State the articles supplied:—*Two top + bottom end bolts + nuts, 2 main bearing bolts + nuts + nuts for couplings, 1 suction + delivery valves for feed pumps + same for bilge pumps, check valves, 3 donkey check valves, 24 assorted bolts + nuts, cylinder cover studs + nuts + 6 chests, 12 junkering studs + nuts, 5 bars of round iron 3/8 1/2 5/8 3/4 and 1"*
 The foregoing is a correct description,

Manufacturer.

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

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders *2/12/19* Slides *2/12/19* Covers *2/12/19* Pistons *2/12/19* Rods *2/12/19*
 Connecting rods *2/12/19* Crank shaft *2/12/19* Thrust shaft *2/12/19* Tunnel shafts *2/12/19* Screw shaft *8/12/19* Propeller *8/12/19*
 Stern tube *8/12/19* Steam pipes tested *1* Engine and boiler seatings *11/12/19* Engines holding down bolts *2/12/19*
 Completion of pumping arrangements *1* Boilers fixed *1* Engines tried under steam *1*
 Main boiler safety valves adjusted *23/12/19* Thickness of adjusting washers *1/2 3/8 3/8 7/16 1/2*
 Material of Crank shaft *Steel* Identification Mark on Do. *BC* Material of Thrust shaft *Steel* Identification Mark on Do. *BC*
 Material of Tunnel shafts *1* Identification Marks on Do. *BC* Material of Screw shafts *1* Identification Marks on Do. *BC*
 Material of Steam Pipes *Iron* Test pressure *1*

General Remarks (State quality of workmanship, opinions as to class, &c. (*Standard B Type*))

The machinery of this vessel has been constructed under the supervision of the British Corporation Surveyors in accordance with the approved plans and Specification for the A Type of Standard vessel.

The machinery has been examined and found in good order see Report No. 72634

Dear Sirs,

I am instant with during const D. Rowan & Co by Messrs. W. Corporation. certificate I have to approved, British Cor

The Surveyor
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The amount of Entry Fee...
 Special £ *40*
 Donkey Boiler Fee £ *10*
 Travelling Expenses (if any) £ *10*

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Committee's Minute

Assigned

TUE. 6 DEC. 1919

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