

REPORT ON MACHINERY.

No. 26666

Received at London Office

THU. AUG. 28. 1913

Date of writing Report 22nd Aug 1913 When handed in at Local Office27-8 1913 Port of Hull.No. in Survey held at Hull.
Reg. Book.Date, First Survey May 29th Last Survey Aug 18th 1913
(Number of Visits 17)1115 on the Steel S.S. K. "Anthony Hope".Gross 288
Net 115

Master

Built at SelbyBy whom built Cochrane & Co LtdWhen built 1913Engines made at HullBy whom made C.D. Holmes & Co Ltdwhen made 1913Boilers made at HullBy whom made C.D. Holmes & Co Ltdwhen made 1913

Registered Horse Power

Owners Newington Stn. Trawling CoPort belonging to HullNom. Horse Power as per Section 28 78Is Refrigerating Machinery fitted for cargo purposes NoIs Electric Light fitted No

ENGINES, &c.—Description of Engines

Triple ExpansionNo. of Cylinders 3No. of Cranks 3Dia. of Cylinders 12 1/4 - 22 - 36Length of Stroke 24Revs. per minute ✓

Dia. of Screw shaft

as per rule 7 1/2Material of SIs the screw shaft fitted with a continuous liner the whole length of the stern tube yes

Is the after end of the liner made water tight

in the propeller boss yes. If the liner is in more than one length are the joints burned ✓

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓liners are fitted, is the shaft lapped or protected between the liners ✓Length of stern bush 38

Dia. of Tunnel shaft

as per rule 6.64as fitted 6.78

Dia. of Crank shaft journals

as per rule 7.007as fitted 7.07Dia. of Crank pin 7 1/2Size of Crank web 48 x 44

Dia. of thrust shaft under

collars 7 1/2Dia. of screw 9 1/4Pitch of Screw 11-6No. of Blades 4State whether moveable NoTotal surface 30No. of Feed pumps 1Diameter of ditto 2 1/2Stroke 14 1/4Can one be overhauled while the other is at work ✓No. of Bilge pumps 1Diameter of ditto 2 1/2Stroke 14 1/4Can one be overhauled while the other is at work ✓No. of Donkey Engines 1Sizes of Pumps 6 x 4 1/2 x 6

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

In Engine Room Two - 2" and 3" ejectorIn Holds, &c. The 2" to after slush well, the 2"to fore slush well, the 2" to Main hold, the 2" to spare water, the 2" to fore castle.No. of Bilge Injections 1sizes 3 1/2Connected to condenser, or to circulating pump pumpIs a separate Donkey Suction fitted in Engine room & size yes, 3"Are all the bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible noneAre all connections with the sea direct on the skin of the ship yesAre they Valves or Cocks BothAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the Discharge Pipes above or below the deep water line aboveAre they each fitted with a Discharge Valve always accessible on the plating of the vessel yesAre the Blow Off Cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers Hold suctionHow 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 yesDates of examination of completion of fitting of Sea Connections 5. 6. 13of Stern Tube 5. 6. 13Screw shaft and Propeller 5. 6. 13Is the Screw Shaft Tunnel watertight ✓Is it fitted with a watertight door ✓worked from ✓BOILERS, &c.—(Letter for record S)Manufacturers of Steel Messrs. Phoenix & Co. Ltd. Horden Verein of HordenTotal Heating Surface of Boilers 1280Is Forced Draft fitted NoNo. and Description of Boiler One single-ended multi-tubularWorking Pressure 200 lbs.Tested by hydraulic pressure to 400 lbs.Date of test 30. 7. 13No. of Certificate 1999Can each boiler be worked separately ✓Area of fire grate in each boiler 45

No. and Description of Safety Valves to

each boiler 2. Spring-loadedArea of each valve 4.9Pressure to which they are adjusted 205 lbs.Are they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 7"Mean dia. of boilers 13-6Length 10-6Material of shell plates SThickness 1 1/2Range of tensile strength 29 tonsAre the shell plates welded or flanged ✓Descrip. of riveting: cir. seams W.R.L.long. seams T.R. 10/3Diameter of rivet holes in long. seams 1 3/16Pitch of rivets 8"Lap of plates or width of butt straps 18"

Per centages of strength of longitudinal joint

rivets 88.8plate 85Working pressure of shell by rules 202Size of manhole in shell 16" x 12Size of compensating ring 7" x 1 1/2"No. and Description of Furnaces in each boiler 3. plainMaterial SOutside diameter 38"

Length of plain part

top 6-3 1/2bottom 5-6

Thickness of plates

crown 51bottom 64Description of longitudinal joint weldedNo. of strengthening rings ✓Working pressure of furnace by the rules 215Combustion chamber plates: Material SThickness: Sides 11/16Back 23/32Top 11/16Bottom 23/32Pitch of stays to ditto: Sides 9 3/8 x 8 1/4Back 9 3/8 x 8 1/4Top 9 3/8 x 8 1/4If stays are fitted with nuts or riveted heads nutsWorking pressure by rules 243End plates in steam space: SMaterial of stays SDiameter at smallest part 2.07Area supported by each stay 7.2Working pressure by rules 243Material of stays SMaterial SThickness 1 1/16Pitch of stays 20" x 18"How are stays secured 10 Ns + 10 SsWorking pressure by rules 204Material of stays SDiameter at smallest part 3.76Area supported by each stay 360Working pressure by rules 288Material of Front plates at bottom SThickness 1/32Material of Lower back plate SThickness 15Greatest pitch of stay 13 1/4 x 9 1/8Working pressure of plate by rules 230Material of tube plates SThickness: Front 1 1/2Back 7/8Mean pitch of stays 11" x 10"Diameter of tubes 3 1/2Pitch of tubes 5" x 5 1/2"Working pressures by rules 208Girders to Chamber tops: Material S

Depth and

thickness of girder at centre 10 1/4" x 1 3/4"Length as per rule 36 3/32Distance apart 9"Number and pitch of stays in each 3-8 1/4"Working pressure by rules 206Superheater or Steam chest; how connected to boiler ✓

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

2021

Lloyd's Register

Foundation

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. Description
 Made at By whom made When made Where fixed
 Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety
 Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment
 If fitted with casing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length
 Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams
 Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets
 Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays Plates
 Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
 Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by
 Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied: Two each top & bottom end connecting rod bolts nuts, two main bearing bolts nuts, one set of coupling bolts nuts, one set each feed & bilge pump valves, iron of different sizes, a quantity of assorted bolts, nuts etc.

The foregoing is a correct description,

Harold Shearman Manufacturer.

Dates of Survey while building
 During progress of work in shops - 1913: May 29. June 5. 19. 27. 30. July 3. 10. 18. 23. 25. 29. 30. Aug. 8. 9. 11. 12.
 During erection on board vessel - Aug 13.
 Total No. of visits 17.

Is the approved plan of main boiler forwarded herewith *Rp. No 26221*
Stanley Heyman

Dates of Examination of principal parts—Cylinders 23.7.13. Slides 23.7.13. Covers 23.7.13. Pistons 23.7.13. Rods 23.7.13.
 Connecting rods 23.7.13. Crank shaft 18.7.13. Thrust shaft 25.7.13. Tunnel shafts ✓ Screw shaft 29.5.13. Propeller 29.5.13.
 Stern tube 29.5.13. Steam pipes tested 8.8.13. Engine and boiler seatings 5.6.13. Engines holding down bolts 11.8.13.
 Completion of pumping arrangements 11.8.13. Boilers fixed 9.8.13. Engines tried under steam 12.8.13.
 Main boiler safety valves adjusted 12.8.13. Thickness of adjusting washers *For val. 3/8" AV 1/32"*
 Material of Crank shaft *S* Identification Mark on Do. 1154. Material of Thrust shaft *S* Identification Mark on Do. 1154.
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *S* Identification Marks on Do. 1154.
 Material of Steam Pipes *Copper solid drawn* Test pressure *400 lbs. hyd. pressure.*

General Remarks (State quality of workmanship, opinions as to class, &c. The engines & boiler of this vessel have been constructed under special survey in accordance with the rules. The material & workmanship are sound & good. The boiler tested by hydraulic pressure and with the engines secured on board & tested under steam they are in good order, & safe working condition, & respectfully submitted as being eligible in my opinion to be classed with the notation of +LMC 8.13 in the Register book.

It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC 8.13.

JWD
 28/8/13.

The amount of Entry Fee .. £ 1 : : When applied for.
 Special £ 11 : 14 : 6 27.8.13.
 Donkey Boiler Fee £ : : When received.
 Travelling Expenses (if any) £ : 8 : 2 29.8.13.

Committee's Minute

FRI. AUG. 29. 1913

Assigned

+ LMC 8.13.

J. G. Mackillop
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

ORIGINAL CERTIFICATE
 WRITTEN.



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 Foundation