

Date of writing Report 27-7-16 When handed in at Local Office 1-8-16 Port of Hull

No. in Survey held at Hull Date, First Survey 25-10-15 Last Survey 26-7-16 19
Reg. Book. 1184 on the steel screw trawler "Angac" (Number of Visits 5)

Master Telby Built at Leby By whom built Cochrane & Sons Ltd Tons { Gross 317
Net 127
When built 1916-7

Engines made at Hull By whom made C. D. Holmes & Co Ltd (1083) when made 1916-7

Boilers made at Hull By whom made C. D. Holmes & Co Ltd when made 1916-7

Registered Horse Power 84 Owners East Riding Tm Fishing Co Port belonging to Hull

Nom. Horse Power as per Section 28 84 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks 3

Dia. of Cylinders 13"-23"-37" Length of Stroke 26" Revs. per minute 107 Dia. of Screw shaft 7.90" Material of Iron
as per rule 7.04" as fitted 7.39" as fitted 7.2" screw shaft

Is 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 yes 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 ✓ If two
liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 35 1/2"

Dia. of Tunnel shaft 7.04" Dia. of Crank shaft journals 7 1/2" Dia. of Crank pin 7 1/2" Size of Crank webs 14 1/2" x 5" Dia. of thrust shaft under
collars 7 1/2" Dia. of screw 9"-7 1/2" Pitch of Screw 10-6 No. of Blades 4 State whether moveable no Total surface 33.75

No. of Feed pumps one Diameter of ditto 2 1/2" Stroke 16" Can one be overhauled while the other is at work ✓

No. of Bilge pumps one Diameter of ditto 2 1/2" Stroke 16" Can one be overhauled while the other is at work ✓

No. of Donkey Engines one Sizes of Pumps 6, 3 1/2 x 6 1/2 wheel No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room two 2" dia In Holds, &c. One 2" dia in each compartment

all suction also connected to 2 1/2" exctr

No. of Bilge-Injections one sizes 3 1/2" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2" exctr

Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes

What pipes are carried through the bunkers ford suction How are they protected strong wooden casings

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

Dates of examination of completion of fitting of Sea Connections 3-11-15 of Stern Tube 3-11-15 Screw shaft and Propeller 3-11-15

Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Stewarts & Lloyd

Total Heating Surface of Boilers 1350 Is Forced Draft fitted no No. and Description of Boilers one single ended

Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 27-6-16 No. of Certificate 3142

Can each boiler be worked separately ✓ Area of fire grate in each boiler 28 # 58 No. and Description of Safety Valves to
each boiler two spring loaded Area of each valve 4.9 Pressure to which they are adjusted 203 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 7 1/2" lagged dia. of boilers 16 1/2" Length 10-9" Material of shell plates steel

Thickness 1 1/4" Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
long. seams J. R. B. 1 Diameter of rivet holes in long. seams 1 7/32" Pitch of rivets 8 1/16" Lap of plates 17 1/4"

Per centages of strength of longitudinal joint 86.4 Working pressure of shell by rules 203 Size of manhole in shell 16" x 12"

Size of compensating ring 7" x 1 1/4" No. and Description of Furnaces in each boiler 3 plain Material steel Outside diameter 40"

Length of plain part 77" Thickness of plates 3 5/16" Description of longitudinal joint welded No. of strengthening rings ✓
top 68" bottom 68" crown 3 5/16" bottom 3 5/16"

Working pressure of furnace by the rules 202 Combustion chamber plates: Material steel Thickness: Sides 23/32 Back 23/32 Top 23/32 Bottom 23/32

Pitch of stays to ditto: Sides 9" x 8 5/8" Back 10 3/8" x 8" Top 10 1/4" x 8 5/8" Bottom 10 1/4" x 8 5/8" Are stays fitted with nuts or riveted heads nuts Working pressure by rules 202

Material of stays steel Diameter at smallest part 2.67" Area supported by each stay 67.5 Working pressure by rules 213 End plates in steam space

Material steel Thickness 1 5/16" Pitch of stays 20" x 20" How are stays secured J. R. B. 1 Working pressure by rules 204 Material of stays steel

Diameter at smallest part 8.76" Area supported by each stay 400 Working pressure by rules 227 Material of Front plates at bottom steel

Thickness 1 5/16" Material of Lower back plate steel Thickness 29/32" Greatest pitch of stays 14" x 8" Working pressure of plate by rules 217

Diameter of tubes 3 1/2" Pitch of tubes 5" x 5 1/2" Material of tube plates steel Thickness: Front 1 5/16" Back 7/8" Mean pitch of stays 10 1/8"

Pitch across wide water spaces 14" Working pressures by rules 300 Girders to Chamber tops: Material steel Depth and
thickness of girder at centre 11 1/2" x 13 1/4" Length as per rule 38 7/8" Distance apart 10 1/8" Number and pitch of stays in each three 8 5/8"

Working pressure by rules ✓ Superheater 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 ✓

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:—

Two top end bolts & nuts, Two bottom end bolts & nuts, Two main bearing bolts & nuts, one set of coupling bolts & nuts, 6 piston studs & nuts, one set of air, feed & bilge pump valves, one set of donkey pump valves, one main & one donkey check valve, one feed pump cam, one impeller shaft, one safety valve spring & a quantity of bolts & nuts & washers of various sizes

The foregoing is a correct description,

per CHARLES D. HOLMES & CO. LTD.

S. Arthur Holmes MANUFACTURER.

Dates of Survey while building { During progress of work in shops - - } *1915: Oct 25. 26. 27. 29 Nov 2. 3. 8. Dec 8. 15. 17. 22. 30 1916: Jan 5. 20. 25. 31*
{ During erection on board vessel - - - } *Feb 24. Mar 3. 8. 10. 14. 16. 21. 23. 27. 28. 30 Apr 3. 5. 6. 11. 13. 17. 27 May 2. 5. 9. 15*
Total No. of visits *57* Is the approved plan of main boiler forwarded herewith *yes* *✓*

Dates of Examination of principal parts—Cylinders *23-5-16* Slides *6-6-16* Covers *25-5-16* Pistons *30-5-16* Rods *1-6-16*
Connecting rods *1-6-16* Crank shaft *26-5-16* Thrust shaft *6-6-16* Tunnel shafts *✓* Screw shaft *3-11-15* Propeller *3-11-15*
Stern tube *27-10-15* Steam pipes tested *14-7-16* Engine and boiler seatings *3-11-15* Engines holding down bolts *27-6-16*
Completion of pumping arrangements *26-7-16* Boilers fixed *13-7-16* Engines tried under steam *26-7-16*
Main boiler safety valves adjusted *26-7-16* Thickness of adjusting washers *F 1/4 A 5/16*
Material of Crank shaft *Iron* Identification Mark on Do. *1590 FLS* Material of Thrust shaft *Iron* Identification Mark on Do. *1572 FLS*
Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Iron* Identification Marks on Do. *1538 FLS*
Material of Steam Pipes *Solid drawn copper* Test pressure *410 lbs*
Is an installation fitted for burning oil fuel *no* Is the flash point of the oil to be used over 150°F. *✓*

Have the requirements of Section 49 of the Rules been complied with *✓*

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Triletes Ainslie by* *✓*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been constructed under special survey in accordance with the approved plans & the rules of this Society, the materials & workmanship are good. The Boiler & steam pipes have been tested by hydraulic pressure as above & found sound & good. The machinery has been properly fitted & secured on board the vessel & on completion was tried under steam under full working conditions & found satisfactory. The safety valves have been adjusted under steam & tested for accumulation which did not exceed 215 lbs. In my opinion the vessel is eligible for the record + L.M.C. 7-16.*

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 7.16.

The amount of Entry Fee ... £ 1 : 0 :
Special ... £ 12 : 12 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : 2 : 2

When applied for,

12/8/1916

When received,

31-8-1916

Frank L. Stanger
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute TUE. 15. AUG. 1916

Assigned

+ L.M.C. 7.16

WATER



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