

# REPORT ON MACHINERY

No. 28864

Received at London Office TUE, 12 OCT. 1915

of writing Report 3-9-15 at Hull when handed in at Local Office 10-9-15 Port of Hull  
 in Survey held at Hull Date, First Survey 26-1-15 Last Survey 3-9-15 1915  
 Book. 4 on the steel screw steamer "Tribune" (Number of Visits 35) Tons { Gross 302  
 Net 158  
 ter Built at Leby By whom built Cochrane & Sons Ltd When built 1915-9  
 ines made at Hull By whom made C. D. Holmes & Co Ltd (No 1095) when made 1915-9  
 ers made at Hull By whom made C. D. Holmes & Co Ltd when made 1915-9  
 istered Horse Power Owners Anchor Steam Fishing Co Ltd Port belonging to Gainsby

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

INES, &c.—Description of Engines Triple expansion No. of Cylinders Three No. of Cranks 3  
 of Cylinders 13"-23"-37" Length of Stroke 24" Revs. per minute as per rule 7.64" Material of Iron  
 as fitted 7 3/4" screws shaft)

ie 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

he 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

een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two

s are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 2'-11 1/2"

of Tunnel shaft as per rule 6.84" Dia. of Crank shaft journals as per rule 7.19" Dia. of Crank pin 7 3/4" Size of Crank webs 4 3/4" x 1 1/2" Dia. of thrust shaft under

ers 7 3/8" Dia. of screw 9'-3" Pitch of Screw 11'-4 1/2" No. of Blades 4 State whether moveable no Total surface 32 1/2'

of Feed pumps one Diameter of ditto 2 3/4" Stroke 14 1/4" Can one be overhauled while the other is at work yes

of Bilge pumps one Diameter of ditto 2 3/4" Stroke 14 1/4" Can one be overhauled while the other is at work yes

of Donkey Engines one & 2 1/2" cylin Sizes of Pumps 6" 4 1/4" x 6" duplex No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Two 2" dia In Holds, &c. one 2" dia in each compartment

uctions also connected to yeeds

of Bilge Injections one size 3 1/2" Connected to condenser, or to circulating pump no Is a separate Donkey Suction fitted in Engine room & size 2 1/2" cylin

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 no

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

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

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

at pipes are carried through the bunkers forward suction How are they protected strong wooden casings

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

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

es of examination of completion of fitting of Sea Connections 27-3-15 of Stern Tube 27-3-15 Screw shaft and Propeller 27-3-15

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

ELERS, &c.—(Letter for record S) Manufacturers of Steel A. Edville Sons

al Heating Surface of Boilers 1400 1/2' Is Forced Draft fitted no No. and Description of Boilers one single ended

orking Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 12-7-15 No. of Certificate 3092

each boiler be worked separately yes Area of fire grate in each boiler 46 8 1/2' No. and Description of Safety Valves to

boiler Two spring loaded Area of each valve 4.9" Pressure to which they are adjusted 205 Are they fitted with easing gear yes

allest distance between boilers or uptakes and bunkers or woodwork 6 1/2" lagged dia. of boilers 165.5 Length 10'-6" Material of shell plates Steel

ickness 1 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double

g. seams J.R.B. 1 Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/2" Lap of plates or width of butt straps 17 1/2"

centages of strength of longitudinal joint rivets 86.1 Working pressure of shell by rules 204 Size of manhole in shell 16" x 12"

e of compensating ring 7" x 1 1/4" No. and Description of Furnaces in each boiler Three plain Material Steel Outside diameter 39"

ngth of plain part top 7 7/8" Thickness of plates crown 5 1/16" Description of longitudinal joint welded No. of strengthening rings one but

orking pressure of furnace by the rules 207 Combustion chamber plates: Material Steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 1/16"

ch of stays to ditto: Sides 10" x 8" Back 9 1/4" x 8 1/2" Top 9" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 202

aterial of stays Steel Diameter at smallest part 2 1/4" Area supported by each stay 104" Working pressure by rules 207 End plates in steam space:

aterial Steel Thickness 1 7/32" Pitch of stays 19 1/2" x 17" How are stays secured D.T. & W. Working pressure by rules 210 Material of stays S

at at smallest part 7.5" Area supported by each stay 331" Working pressure by rules 235 Material of Front plates at bottom Steel

ickness 29/32" Material of Lower back plate Steel Thickness 29/32" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 205

iameter of tubes 5 1/2" Pitch of tubes 5 1/2" x 5" Material of tube plates Steel Thickness: Front 29/32" + 1/32" Back 7/8" Mean pitch of stays 10 1/2"

ch across wide water spaces 14 1/4" Working pressures by rules 261 Girders to Chamber tops: Material Steel Depth and

ickness of girder at centre 10 1/4" x 1 3/4" Length as per rule 36.4 Distance apart 9" x 7" Number and pitch of stays in each Three 8"

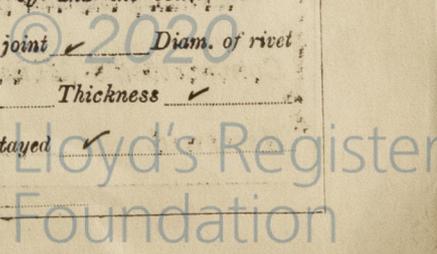
orking pressure by rules 210 Superheater or Steam chest; how connected to boiler yes Can the superheater be shut off and the boiler worked

arately yes Diameter yes Length yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivet

es yes Pitch of rivets yes Working pressure of shell by rules yes Diameter of flue yes Material of flue plates yes Thickness yes

stiffened with rings yes Distance between rings yes Working pressure by rules yes End plates: Thickness yes How stayed yes

orking pressure of end plates yes Area of safety valves to superheater yes Are they fitted with easing gear yes



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, one main one donkey check valve, one set of feed & edge pump valves, one set of pump studs, 3 escape valve springs, two safety valve springs, a quantity of bolts & nuts of various sizes*

The foregoing is a correct description,  
p. pro CHARLES D. HOLMES & CO. LTD.

*Harold Sheardson* DIRECTOR Manufacturer.

Dates of Survey while building: During progress of work in shops - *1915: - Mar 8. 10. 14. 27. Apr 9. 27. May 3. 6. 7. 11. 21. 27. Jun 3. 8. 9. 15. 16. 29. 30. July 5. 7. 12. 14. 22. Aug 5. 18. 19. 21. 24. 26. 27. Sep 2. 3.*  
Total No. of visits *35.*

Is the approved plan of main boiler forwarded herewith   
" " " donkey " " "

Dates of Examination of principal parts - Cylinders *6-5-15* Slides *5-7-15* Covers *11-5-15* Pistons *27-5-15* Rods *16-6-15*  
Connecting rods *16-6-15* Crank shaft *9-6-15* Thrust shaft *7-7-15* Tunnel shafts ✓ Screw shaft *19-3-15* Propeller *19-3-15*  
Stern tube *19-3-15* Steam pipes tested *24-8-15* Engine and boiler seatings *27-3-15* Engines holding down bolts *5-8-15*  
Completion of pumping arrangements *2-9-15* Boilers fixed *5-8-15* Engines tried under steam *27-8-15*  
Main boiler safety valves adjusted *27-8-15* Thickness of adjusting washers *3/8 Both*

Material of Crank shaft Identification Mark on Do. *1464 J M* Material of Thrust shaft *Steel* Identification Mark on Do. *15011*  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *1431*

Material of Steam Pipes *solid drawn copper* Test pressure *40 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 *Wilbert Hul 28425 Verisid Hul*

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 plan & the rules of this society, the materials & workmanship are good. The steam pipes have been tested by hydraulic pressure as above & found to be good. The machinery has been properly fitted & secured on board & completion was tried under full working conditions & found to be satisfactory. The safety valves have been adjusted under steam & tested for accumulation which did not exceed 210 lbs. In our opinion the vessel is eligible for the record + L.M.C. 9.15.*

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 9.15.

*R/S*

*J.W.D.*

The amount of Entry Fee ... £ 1 : 0 :  
Special ... £ 12 : 12 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : 8 - 2

When applied for, *11.10.1915*  
When received, *29.10.1915*

*Frank A. Sturgeon & J.G. Mackillop*  
Engineers Surveyors to Lloyd's Register of British & Foreign Shipping

Committee's Minute *FRI. 15 OCT. 1915*  
Assigned *+ L.M.C. 9.15*

MACHINERY CERTIFICATE WRITTEN.

