

Received at London Office

WED. FEB. 28. 1917

Date of writing Report 23-2-17 19 When handed in at Local Office 27-2-17 19 Port of Hull
No. in Survey held at Hull Date, First Survey 3. 4. 16 Last Survey 23-2-17 19
Reg. Book. 87 on the steel screw trawler Capricornus (Number of Visits 39 Tons Gross 219 Net 98
Master Built at Gool By whom built Gool J.B. & R. P. 62 Ld When built 1917-2
Engines made at Hull By whom made C.D. Holmes 162 Ld } 101127 when made 1917-2
Boilers made at Hull By whom made C.D. Holmes 162 Ld } 101127 when made 1917-2
Registered Horse Power Owners Gimby & Co Sea Lion Trawling Co Ld Port belonging to Gimby
Nom. Horse Power as per Section 28 76 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders Three No. of Cranks 3
Dia. of Cylinders 12½ - 21½ - 35 Length of Stroke 24 Revs. per minute 7.14 Material of screw shaft as fitted 7½ 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 35½
Dia. of Tunnel shaft as per rule 6.41 Dia. of Crank shaft journals as per rule 6.73 Dia. of Crank pin 7 Size of Crank webs 13½ x 4½ Dia. of thrust shaft under
collars 7½ Dia. of screw 8-7½ Pitch of Screw 10-10½ No. of Blades 4 State whether moveable no Total surface 299
No. of Feed pumps one Diameter of ditto 2½ Stroke 14½ Can one be overhauled while the other is at work
No. of Bilge pumps one Diameter of ditto 2½ Stroke 14½ Can one be overhauled while the other is at work
No. of Donkey Engines one 3½ hp Sizes of Pumps 6, 3½ x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room two 2" In Holds, &c. one 2" dia in each compartment
all suction also connected to engine
No. of Bilge Injections one sizes 3½ Connected to condenser, or to circulating pump pumps Is a separate Donkey Suction fitted in Engine room & size 3" hp
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 no
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 Forward 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
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 & Lloyds
Total Heating Surface of Boilers 1310 Is Forced Draft fitted no No. and Description of Boilers one single ended
Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 15-11-16 No. of Certificate 3175
Can each boiler be worked separately Area of fire grate in each boiler 334 ft No. and Description of Safety Valves to
each boiler two spring loaded Area of each valve 3.97 Pressure to which they are adjusted 185 Are they fitted with easing gear yes
Smallest distance between boilers on uptakes and bunkers on woodwork 6" lagged Mean dia. of boilers 150 Length 10-0 Material of shell plates steel
Thickness 1½ Range of tensile strength 28-32 lbs Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
long. seams J.P. & B. Diameter of rivet holes in long. seams 1½ Pitch of rivets 7¾ Lap of plates or width of butt straps 15
Per centages of strength of longitudinal joint rivets 84.4 Working pressure of shell by rules 185½ Size of manhole in shell 16" x 12"
plate 85.6 No. and Description of Furnaces in each boiler two plain Material steel Outside diameter 43
Size of compensating ring 7" x 1½ No. of strengthening rings one pt
Length of plain part top 7½ Thickness of plates crown 2 13/16 Description of longitudinal joint welded No. of strengthening rings one pt
bottom 71 Working pressure of furnace by the rules 192 Combustion chamber plates: Material steel Thickness: Sides 3/4 Back 1/16 Top 1/16 Bottom 3/4
Pitch of stays to ditto: Sides 10" x 9" Back 9½" x 8½" Top 10" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181
Material of stays steel Area at smallest part 2.4 Area supported by each stay 110 Working pressure by rules 196 End plates in steam space:
Material steel Thickness 1½ Pitch of stays 17" x 16 How are stays secured 8.72 Working pressure by rules 196 Material of stays steel
Area at smallest part 5.79 Area supported by each stay 272 Working pressure by rules 221 Material of Front plates at bottom steel
Thickness 7/8 Material of Lower back plate steel Thickness 29/32 Greatest pitch of stays 14½ x 9½ Working pressure of plate by rules 188
Diameter of tubes 3½ Pitch of tubes 5" x 5½ Material of tube plates steel Thickness: Front 7/8 x 3/4 Back 7/8 Mean pitch of stays 11.4
Pitch across wide water spaces 15 Working pressures by rules 211 Girders to Chamber tops: Material steel Depth and
thickness of girder at centre 7¾ x 1¾ Length as per rule 30.4 Distance apart 9 Number and pitch of stays in each two 10
Working pressure by rules 201 Steam dome: description of joint to shell % of strength of joint
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed
SUPERHEATER. Types Date of Approval of Plan Tested by Hydraulic Pressure to
Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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 set of feed, bridge & air pump valves, 6 piston studs & nuts, one main & one donkey check valve, one set of escape valves & springs, one safety valve spring, & a quantity of bolts & nuts & iron of various sizes.*

The foregoing is a correct description,

CHARLES D. HOLMES & CO. LTD.

Harold Sheardson

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } *1916: Apr 3, 17 Jun 15 Aug 15 Sep 1, 2, 5, 7, 12, 13, 15, 18, 19, 21, 23, 26, 27, 29 Oct 5, 6, 10*
{ During erection on board vessel --- } *12, 17, 20, 31 Nov 1, 3, 7, 10, 13, 15 1917: Jan 10, 17, 22, 23, 25, 29 Feb 1, 23.*
Total No. of visits *39*

Is the approved plan of main boiler forwarded herewith *yes*

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *13-9-16* Slides *17-10-16* Covers *5-10-16* Pistons *5-10-16* Rods *5-10-16*
Connecting rods *5-10-16* Crank shaft *21-9-16* Thrust shaft *15-6-16* Tunnel shafts ☒ Screw shaft *27-9-16* Propeller *27-9-16*
Stern tube *27-9-16* Steam pipes tested *23-1-17* Engine and boiler seatings *26-9-16* Engines holding down bolts *17-1-17*
Completion of pumping arrangements *23-2-17* Boilers fixed *17-1-17* Engines tried under steam *23-2-17*
Completion of fitting sea connections *6-10-16* Stern tube *29-9-16* Screw shaft and propeller *6-10-16*
Main boiler safety valves adjusted *1-2-17* Thickness of adjusting washers *7 5/16" & 9/16"*

Material of Crank shaft *Iron* Identification Mark on Do. *1734 FLS* Material of Thrust shaft *Iron* Identification Mark on Do. *7215 FLS*

Material of Tunnel shafts ☒ Identification Marks on Do. ☒ Material of Screw shafts *Iron* Identification Marks on Do. *1739 FLS*

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? *no* so, state name of vessel *Cancer, Saturn*

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 steam pipes & boiler have been tested as above by hydraulic pressure & 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 180 lbs.*

In my opinion the vessel is eligible for the record + L.M.C. 2.17

THIS VESSEL IS ELIGIBLE FOR THE RECORD + L.M.C. 2.17.

The amount of Entry Fee ... £ *1* : *0* :
Special ... £ *11* : *8* :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : *6/4* :
When applied for, *27-2-1917*
When received, *28-2-1917*

Committee's Minute

Assigned

FRI.-2 MAR. 1917

+ L.M.C. 2.17.

Frank A. Stanger
Engineer Surveyor to Lloyd's Register of Shipping.



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