

Port of

Grimsby.

Received at London Office TUES. APR 2<sup>nd</sup> 1907No. in Survey held at  
Reg. Book.

Grimsby.

Date, first Survey 27 October 1906 Last Survey 16 March 1907

(Number of Visits 28.)

on the Engines of trawler 'CLEON'

Master N. Dagger. Built at Selby

By whom built Cochrane &amp; Sons.

Gross 266.

Net 120.

When built 1907.

Engines made at Grimsby.

By whom made G. Central Coop. &amp; R. C. L.

when made 1907.

Boilers made at Stockton.

By whom made Blair &amp; Co. L.

when made 1907.

Registered Horse Power

Owners Orient Steam Fishing Co. L.

Port belonging to Grimsby.

Nom. Horse Power as per Section 28

74.

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

No.

ENGINES, &c.—Description of Engines Trip. Exp. Surf. Cond. Inw. Cyl. No. of Cylinders 3. No. of Cranks 3.  
Dia. of Cylinders 12 1/4. 22. 35. Length of Stroke 24. Revs. per minute 108. Dia. of Screw shaft as per rule 7 1/8. Material of screw shaft Iron.  
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. 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 3'-0".  
Dia. of Tunnel shaft as per rule 7 1/4. Dia. of Crank shaft journals as per rule 6.93. Dia. of Crank pin 7 1/4. Size of Crank webs 4 1/2 x 13 1/2. Dia. of thrust shaft under collars 7 1/4. Dia. of screw 9-6. Pitch of Screw 11-0. No. of Blades 4. State whether moveable No. Total surface 28 sq. ft.  
No. of Feed pumps 1. Diameter of ditto 2 1/2. Stroke 12. Can one be overhauled while the other is at work.  
No. of Bilge pumps 2. Diameter of ditto 2 1/4. Stroke 12. Can one be overhauled while the other is at work. Yes.  
No. of Donkey Engines 1. Sizes of Pumps 6 x 3 1/2 x 6. No. and size of Suctions connected to both Bilge and Donkey pumps.  
In Engine Room Sea bilge & hotwell 2" bore In Holds, &c. Hold, forepeak, No. Tanks.  
No. of Bilge Injections 1. sizes 3 1/2. Connected to condenser, or to circulating pump. Is a separate Donkey Suction fitted in Engine room & size 6 x 2 1/2.  
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 Hold & forepeak suction How are they protected Wood casing.  
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 17th Jan. of Stern Tube 17th Jan. Screw shaft and Propeller 17th Jan 1907.  
Is the Screw Shaft Tunnel watertight No tunnel Is it fitted with a watertight door. worked from.

## BOILERS, &amp;c.—(Letter for record ) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers  
Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate  
Can each boiler be worked separately Area of grate in each boiler No. and Description of Safety Valves to each boiler  
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear  
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates  
Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams  
long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter  
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings  
bottom Thickness of plates bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules  
Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:  
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays  
Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom  
Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules  
Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays  
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and  
thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each  
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

W954-0047



# 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 easing 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 \_\_\_\_\_ Plates \_\_\_\_\_

Working pressure of shell by rules \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of stays to do. \_\_\_\_\_ Dia. of stays \_\_\_\_\_

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 \_\_\_\_\_ Stayed by \_\_\_\_\_

Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_ Dates of survey \_\_\_\_\_

SPARE GEAR. State the articles supplied:— 2 each top & bottom end & main bearing bolts, a set of coupling bolts, feed & check valves, air circulation feed & bilge pump valves, valve runs, safety valve springs, stud iron, propeller.

The foregoing is a correct description,

For the GREAT CENTRAL CO-OPERATIVE  
ENGINEERING & SHIP REPAIRING COMPANY, LTD

Manufacturer.

Dates of Survey while building  
During progress of work in shops— 1906:— Oct 27, 31, Nov 1, 8, 13, 21, 23, 27, Dec 6, 10, 11, 19, 1907:— Jan 8, 18, 24, 25, Feb 2, 9, 12, 20.  
During erection on board vessel— 1907:— Mar 4, 7, 8, 12, 15, 16  
Total No. of visits Twenty Eight.

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_

Dates of Examination of principal parts—Cylinders 24/06, 11/12/06, Slides 20/2/07, 12/2/07, Covers 27/1/06, Pistons 25/1/07, 12/2/06, 3/1/06.  
Connecting rods 8/1/06, Crank shaft 24/1/07, Thrust shaft 4/3/07, Tunnel shafts ✓, Screw shaft 6/2/06 & 2/2/06, Propeller 22/1/06.  
Stern tube 22/1/06, Steam pipes tested 8/3/07, Engine and boiler seatings 27/2/07, Engines holding down bolts 4/3/07.  
Completion of pumping arrangements 7/3/07, Boilers fixed 4/3/07, Engines tried under steam 14/3/07.  
Main boiler safety valves adjusted 15/3/07, Thickness of adjusting washers 7/6.  
Material of Crank shaft Iron (Steel pins), Identification Mark on Do. N° 519, Material of Thrust shaft Iron, Identification Mark on Do. N° 533.  
Material of Tunnel shafts ✓, Identification Marks on Do. ✓, Material of Screw shafts Iron, Identification Marks on Do. N° 509.  
Material of Steam Pipes Copper, Solid draught, 46 lbs, Test pressure 400 lbs.

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been constructed under Special Survey, the materials and workmanship are good and the case is, in my opinion, eligible for the notation + L.M.C. 3.07.

It is submitted that  
this vessel is eligible for  
THE RECORD. + L.M.C. 3.07.

H.C. 3/4/07.

W.S.  
3.4.07

The amount of Entry Fee. £ 1 : 0 : 0 When applied for.  
Special £ 11 : 2 : 0 28/3/07.  
Donkey Boiler Fee £ 12 : 2 : 0 When received.  
Charged at Middleboro' £ 3 : 14 : 0 27/3/07.  
Garrett Fee £ 8 : 8 : 0  
Committee's Minute

WED. APR 3 1907

TUES. APR 23 1907

Assigned

MACHINERY CERTIFICATE  
WRITTEN.



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Foundation