

REPORT ON MACHINERY.

No. 28988

Received at London Office

FRI. - 3 DEC. 1915

Date of writing Report 11-11-15 When handed in at Local Office 11. 11. 15 Port of Hull

No. in Survey held at Hull Date, First Survey 7.5.15 Last Survey 9.11.15

Reg. Book. 55 on the steel screw trawler Ronso (Number of Visits 37) Tons Gross 248 Net 108

Master Built at Beverley By whom built Cook, Welton & Gemmell When built 1915-11

Engines made at Hull By whom made C. J. Holmes & Co. Ld (No. 1141) when made 1915-11

Boilers made at Hull By whom made C. J. Holmes & Co. Ld when made 1915-11

Registered Horse Power Owners G. F. Slight Port belonging to Gimsby

Nom. Horse Power as per Section 28 80 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 12 1/2 - 22 - 35 Length of Stroke 24 Revs. per minute Dia. of Screw shaft as per rule 7.31 as fitted 7 1/2 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 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 as per rule 6.6 as fitted 6.93 Dia. of Crank shaft journals as per rule 7 Dia. of Crank pin 7 Size of Crank webs 4 7/8 x 1 3/4 Dia. of thrust shaft under

collars 7 Dia. of screw 8-9 Pitch of Screw 10-9 No. of Blades 4 State whether moveable no Total surface 29.8

No. of Feed pumps one Diameter of ditto 2 3/8 Stroke 14 1/4 Can one be overhauled while the other is at work

No. of Bilge pumps one Diameter of ditto 2 3/8 Stroke 14 1/4 Can one be overhauled while the other is at work

No. of Donkey Engines two 2 1/2 sizes of Pumps 5 1/4, 3 1/2 x 5 + 6 1/4 x 6 dup 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 ejector

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

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 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

Dates of examination of completion of fitting of Sea Connections 24-6-15 of Stern Tube 24-6-15 Screw shaft and Propeller 24-6-15

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 & Lloyds

Total Heating Surface of Boilers 1402 Is Forced Draft fitted no No. and Description of Boilers one single ended

Working Pressure 195 lbs Tested by hydraulic pressure to 390 lbs Date of test 24-9-15 No. of Certificate 3102

Can each boiler be worked separately Area of fire grate in each boiler 43.2 No. and Description of Safety Valves to

each boiler two spring loaded Area of each valve 4.9 Pressure to which they are adjusted 200 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 7 Mean dia. of boilers 16.2 Length 10-6 Material of shell plates steel

Thickness 1 3/16 Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double

long. seams L.R.D.B. Diameter of rivet holes in long. seams 1 7/32 Pitch of rivets 8 7/16 Lap of plates or width of butt straps 16 3/8

Per centages of strength of longitudinal joint rivets 86.8 plate 85.5 Working pressure of shell by rules 197 lbs Size of manhole in shell 16" x 12"

Size of compensating ring 7" x 1 3/16 No. and Description of Furnaces in each boiler three plain Material steel Outside diameter 40"

Length of plain part top 76 3/4 bottom 66 Thickness of plates crown 2 5/32 Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 197 Combustion chamber plates: Material steel Thickness: Sides 1 1/16 Back 2 3/32 3/4 Top 1 1/16 3/4 Bottom 1 1/16

Pitch of stays to ditto: Sides 9 3/4 x 8 Back 9 1/2 x 9 3/8 Top 11 x 8 10 x 8 wing If stays are fitted with nuts or riveted heads nuts Working pressure by rules 200

Material of stays steel Diameter at smallest part 2.07 Area supported by each stay 89 Working pressure by rules 209 End plates in steam space

Material steel Thickness 1 5/32 Pitch of stays 18" x 18" How are stays secured R.H. & W. Working pressure by rules 195 Material of stays steel

Diameter at smallest part 6.33 Area supported by each stay 324 Working pressure by rules 203 Material of Front plates at bottom steel

Thickness 7/8 Material of Lower back plate steel Thickness 3/32 Greatest pitch of stays 15" x 9 3/8 Working pressure of plate by rules 204

Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 Material of tube plates steel Thickness: Front 7/8 + 3/4 Back 7/8 Mean pitch of stays 9 1/2

Pitch across wide water spaces 15 Working pressures by rules 250 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 10 3/4 x 1 3/4 Length as per rule 35.8 Distance apart 11 Number and pitch of stays in each three 8"

Working pressure by rules 197 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, one set of air feed bilge pump valves, one main & one donkey check valve, one safety valve spring, 3 boiler tubes & a quantity of bolts & nuts & nuts of various sizes

The foregoing is a correct description,
p. pro CHARLES D. HOLMES & Co. LTD
S. Arthur Holmes DIRECTOR Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1915: - May 7, 18, 21, Jun 3, 15, 21, 24, 30, Jul 5, 12, 16, 22, Aug 10, 20, 26, 27, 29
{ During erection on board vessel - - - } Sep 7, 9, 15, 20, 21, 22, 24, 27, 29, Oct 1, 5, 12, 19, 20, 26, 27, 30, Nov 4, 9.
Total No. of visits 37 Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts - Cylinders 26-8-15 Slides 1-10-15 Covers 24-9-15 Pistons 24-9-15 Rods 27-9-15
Connecting rods 15-9-15 Crank shaft 22-9-15 Thrust shaft 5-9-15 Tunnel shafts Screw shaft 24-6-15 Propeller 24-6-15
Stern tube 24-6-15 Steam pipes tested 27-10-15 Engine and boiler seatings 24-6-15 Engines holding down bolts 19-10-15
Completion of pumping arrangements 9-11-15 Boilers fixed 19-10-15 Engines tried under steam 9-11-15
Main boiler safety valves adjusted 9-11-15 Thickness of adjusting washers 1/4 S 3/16
Material of Crank shaft Iron Identification Mark on Do. 152 FLS Material of Thrust shaft Iron Identification Mark on Do. 7232 DD
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Iron Identification Marks on Do. 1476 JSN
Material of Steam Pipes solid drawn copper Test pressure 400
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 If so, state name of vessel
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 as above & found good. The machinery has been properly fitted & secured on board & on completion was tested under full working conditions & found satisfactory. The safety valves have been adjusted under steam & tested for accumulation which did not exceed 210 lbs. In my opinion the vessel is eligible for the record + L.M.C. 11-15

Please return Boiler plan for dealing with sister vessels

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 11-15.

Frank A. Sturges 4/12/15
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

The amount of Entry Fee ... £ 1 : 0 :
Special ... £ 1/2 : 0 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : 2 :
When applied for, 2/12/15
When received, 31-12-15

Committee's Minute TUE DEC - 7 1915
Assigned + L.M.C. 11-15

MACHINERY CERTIFICATE



Port of
No. in Reg. Book SUPR. 5
Owners
Yard No. 329
DESCRIPTION
Inverted
dynamo.
Capacity of Dyn
Where is Dynam
Position of Main
Positions of au
room an
If fuses are fit
circuits
If vessel is wire
Are the fuses o
Are all fuses fit
are perman
Are all switches
Total number of
A 27
B 3
C 32
D
E
3 Mast h
2 S
If arc lights, wh
Where are the
DESCRIPTION
Main cable carry
Branch cables ca
Branch cables ca
Leads to lamps ca
Cargo light cables
DESCRIPTION
V. S. R. L
Joints in cables,
Are all the joints
positions, n
Are there any jo
How are the cab
bulkhead