

REPORT ON MACHINERY.

No. 48834

Received at London Office 18 APR 1916

Date of writing Report 18 APR 1916 When handed in at Local Office 18 APR 1916 Port of London

No. in Survey held at Uxenhoe Date, First Survey 14 Oct 1915 Last Survey 7th April 1916
Reg. Book. Motor coaster "Gusto" (Number of Visits 12)

Master Uxenhoe Built at Uxenhoe By whom built Rennie Fawcett's Shipbuilding Co. Ltd When built 1916

Engines made at Stockholm By whom made J. & B. I. Bolinder's Co. Ltd when made 1915

Boilers made at Stockholm By whom made J. & B. I. Bolinder's Co. Ltd when made 1915

Registered Horse Power 120 Owners M. Gustafsson Port belonging to Uxenhoe

Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Bolinder two stroke cycle reversible No. of Cylinders 2 No. of Cranks 7
See Stockholm report No 1441

Dia. of Cylinders 15" Length of Stroke 16 1/2" Revs. per minute 282 Dia. of Screw shaft 5 1/2" Material of screw shaft steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liner Is the after end of the liner made water tight in the propeller boss

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 1-11/2"

Dia. of Propeller shaft 5" Dia. of Crank shaft journals 5.5" Dia. of Crank pin 6.1" Size of Crank webs 8 1/2" Dia. of thrust shaft under collars 5.7"

No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge pumps one Diameter of ditto 4" Stroke 5" Can one be overhauled while the other is at work

No. of Donkey Engines 1 motor pump attached to winch Sizes of Pumps 3 1/2 x 3" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 2" dia. In Holds, &c. Three 2" dia. Aft peak 2" dia.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes 2" dia.

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

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Lock

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

What pipes are carried through the bunkers How are they protected

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 27-10-15 of Stern Tube 27-10-15 Screw shaft and Propeller 27-10-15

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

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

Total Heating Surface of Boilers 1414 Is Forced Draft fitted No. and Description of Boilers

Working Pressure 140 lbs Tested by hydraulic pressure to 140 lbs Date of test 27-10-15 No. of Certificate

Can each boiler be worked separately Area of fire grate in each boiler 1414 No. and Description of Safety Valves to each boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 1414 Mean dia. of boilers 1414 Length 1414 Material of shell plates

Thickness 1414 Range of tensile strength 1414 Are the shell plates welded or flanged Descrip. of riveting: cir. seams

long. seams 1414 Diameter of rivet holes in long. seams 1414 Pitch of rivets 1414 Lap of plates or width of butt straps

Per centages of strength of longitudinal joint 1414 Working pressure of shell by rules 1414 Size of manhole in shell

Size of compensating ring 1414 No. and Description of Furnaces in each boiler 1414 Material 1414 Outside diameter

Length of plain part 1414 Thickness of plates 1414 Description of longitudinal joint 1414 No. of strengthening rings

Working pressure of furnace by the rules 1414 Combustion chamber plates: Material 1414 Thickness: Sides 1414 Back 1414 Top 1414 Bottom 1414

Pitch of stays 1414 Back 1414 Top 1414 If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays 1414 Diameter of smallest part 1414 Area supported by each stay 1414 Working pressure by rules 1414 End plates in steam space

Material 1414 Thickness 1414 Pitch of stays 1414 How are stays secured 1414 Working pressure by rules 1414 Material of stays

Diameter at smallest part 1414 Area supported by each stay 1414 Working pressure by rules 1414 Material of Front plates at bottom

Thickness 1414 Material of Lower back plate 1414 Thickness 1414 Greatest pitch of stays 1414 Working pressure of plate by rules

Diameter of tubes 1414 Pitch of tubes 1414 Material of tube plates 1414 Thickness: Front 1414 Back 1414 Mean pitch of stays

Pitch across wide water spaces 1414 Working pressures by rules 1414 Girders to Chamber tops: Material 1414 Depth and thickness of girder at centre 1414

Working pressure by rules 1414 Superheater or Steam chest; how connected to boiler 1414 Can the superheater be shut off and the boiler worked separately

holes 1414 Diameter 1414 Length 1414 Thickness of shell plates 1414 Material 1414 Description of longitudinal joint 1414 Diam. of rivet

Pitch of rivets 1414 Working pressure of shell by rules 1414 Diameter of flue 1414 Material of flue plates 1414 Thickness 1414

If stiffened with rings 1414 Distance between rings 1414 Working pressure by rules 1414 End plates: Thickness 1414 How stayed 1414

Working pressure of end plates 1414 Area of safety valves to superheater 1414 Are they fitted with easing gear

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: - 2 connecting rod top end bolts nuts, 2 connecting rod bottom end bolts nuts, 6 coupling bolts, 2 sets of bilge pump valves, 3 bolts for upper end of cylinder, 1 bolt nut for bottom end of cylinder, 1 bolt nut for the eccentric rod, 1 bolt with nut for telling arm, 1 bolt nut for regulator weight, 2 bolts nuts for main bearing, 1 pressure valve for circulating pump, ditto for suction, + 1 ignition bulb.

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building: During progress of work in shops - - - Oct 11, 17, Nov 3, 11, 17, Dec 11, 30, Jan 20, Feb 22, Mar 21, Apr 6, 7. During erection on board vessel - - - 27-11-15, 1915. Total No. of visits 12. Is the approved plan of main boiler forwarded herewith " " " donkey " " "

Dates of Examination of principal parts: Cylinders Slides Covers Pistons Rods Connecting rods Crank shaft Thrust shaft Tunnel shafts 17-11-15 Screw shaft 7/12/15 Propeller Stern tube Steam pipes tested Engine and boiler seatings 17-11-15, 4-12-15 Engines holding down bolts 4-12-15 Completion of pumping arrangements 6-7-15 Boilers fixed Engines tried under working conditions 6-7-15 Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Identification Mark on Do. Material of Thrust shaft Identification Mark on Do. Material of Tunnel shafts Steel Identification Marks on Do. N° 511, 287 Material of Screw shafts N° 78, 112 Identification Marks on Do. Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel 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 If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The Engines surveyed whilst being fitted on board, & found satisfactory, the fuel and feed tanks tested by hydraulic pressure to 10 lb per sq inch & found tight. The Engines tried under full power and worked smoothly & well, the speed of the vessel on trial trip was 8.35 knots, revolutions 282, lowest number of revolutions for manouevring purpose 120. All the rules requirements for internal combustion engines have been carried out, + is in my opinion eligible for the record of + L.M.C. 4-16 in the Register Book

It is submitted that this vessel is eligible for THE RECORD, + L.M.C. 4.16.

Oil engines, 15" - 16 1/8" 2 S.C.S.A. (Annual Survey) J + G.C. Bolinders Co Ld. Skm.

A.E. Farmer Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

The amount of Entry Fee ... £ 1-0-0 When applied for, 18 APR 1916 Special 4/6-0-0 Donkey Boiler Fee ... £ 2-13-4 Travelling Expenses (if any) £ 2-11-7

Committee's Minute WED 26 APR 1916 Assigned + L.M.C. 4.16 (Oil Engine) FRI 30 NOV 1917

MACHINERY CERTIFICATE WRITTEN 26-4-16

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