

REPORT ON MACHINERY.

No. 10156

Received at London Office

FRI. 18 AUG. 1916

Date of writing Report 8/8 1916 When handed in at Local Office 19 Port of Amsterdam
 No. in Survey held at Amsterdam Date, First Survey Decr 1915 Last Survey 3/8 1916
 Reg. Book. on the Ship S.S. SINT ANNALAND (Number of Vessels 2) Tons { Gross 2247
 Net 1206
 Master J. J. Schut Built at Schiedam By whom built W. J. G. J. Schut When built 1916
 Engines made at Schiedam By whom made W. J. G. J. Schut when made 1916
 Boilers made at Graauw. Breda By whom made Cham. Breda when made 1916
 Registered Horse Power 210 Owners Schiedamse Stoomvaart Maatschappij Port belonging to Amsterdam
 Nom. Horse Power as per Section 28 210 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 10 1/2 x 14 1/2 x 14 1/2 Length of Stroke 89 Revs. per minute 80 Dia. of Screw shaft 1 1/2 Material of Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight
 in the propeller boss No If the liner is in more than one length are the joints burned No 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 No If two
 liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 4 1/2
 Dia. of Tunnel shaft 1 1/2 Dia. of Crank shaft journals 1 1/2 Dia. of Crank pin 1 1/2 Size of Crank webs 10 1/2 Dia. of thrust shaft under
 collars 1 1/2 Dia. of screw 1 1/2 Pitch of Screw 1 1/2 No. of Blades 4 State whether moveable No Total surface 68
 No. of Feed pumps 2 Diameter of ditto 3 1/2 Stroke 19 1/2 Can one be overhauled while the other is at work No
 No. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 19 1/2 Can one be overhauled while the other is at work No
 No. of Donkey Engines 3 Sizes of Pumps 1 1/2, 1 1/2, 1 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 1 1/2, 1 1/2, 1 1/2 In Holds, &c. 2 1/2, 2 1/2, 2 1/2

No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump No Is a separate Donkey Suction fitted in Engine room & size 1 1/2
 Are all the bilge suction pipes fitted with roses No Are the roses in Engine room always accessible No Are the sluices on Engine room bulkheads always accessible No
 Are all connections with the sea direct on the skin of the ship No Are they Valves or Cocks Both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates No Are the Discharge Pipes above or below the deep water line Both
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel No Are the Blow Off Cocks fitted with a spigot and brass covering plate No
 What pipes are carried through the bunkers 2 Bilge pipes to Hold No. 1 How are they protected Brown in
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times No
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges No
 Dates of examination of completion of fitting of Sea Connections 14.3.16 of Stern Tube 14.3.16 Screw shaft and Propeller 14.3.16
 Is the Screw Shaft Tunnel watertight No Is it fitted with a watertight door No worked from No

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Thyssen & Co. Essen & Ruhr

Total Heating Surface of Boilers 3616.8 Is Forced Draft fitted No No. and Description of Boilers 2 Marine Single End
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 14.6.16 No. of Certificate at G. Breda
 Can each boiler be worked separately No Area of fire grate in each boiler 54.8 No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 3.3 Pressure to which they are adjusted 180 lbs Are they fitted with easing gear No
 Smallest distance between boilers or uptakes and bunkers or woodwork 2 1/2 Mean dia. of boilers 18.9 Length 16.4 Material of shell plates Steel
 Thickness 1 1/8 Range of tensile strength 42,000 Are the shell plates welded or flanged Welded Descrip. of riveting: cir. seams None
 long. seams Double butt Diameter of rivet holes in long. seams 3 1/8 Pitch of rivets 5 1/8 Lap of plates or width of butt straps 18 1/8
 Per centages of strength of longitudinal joint 90 Working pressure of shell by rules 181 lbs Size of manhole in shell 12 1/2
 Size of compensating ring 7 1/2 No. and Description of Furnaces in each boiler 2 Horizontal Material Steel Outside diameter 3.9
 Length of plain part 19.2 Thickness of plates 1 1/8 Description of longitudinal joint Welded No. of strengthening rings 4
 Working pressure of furnace by the rules 185 lbs Combustion chamber plates: Material Steel Thickness: Sides 1 1/8 Back 1 1/8 Top 1 1/8 Bottom 1 1/8
 Pitch of stays to ditto: Sides 7 x 7 Back 7 x 7 1/2 Top 7 x 7 1/2 If stays are fitted with nuts or riveted heads Both Working pressure by rules 184 lbs
 Material of stays Steel Diameter at smallest part 1.277 Area supported by each stay 4.9 Working pressure by rules 190 lbs End plates in steam space:
 Material Steel Thickness 7/8 Pitch of stays 20 x 15 1/4 How are stays secured and nuts Working pressure by rules 238 lbs Material of stays Steel
 Diameter at smallest part 7.06 Area supported by each stay 3.50 Working pressure by rules 234 lbs Material of Front plates at bottom Steel
 Thickness 1 1/8 Material of Lower back plate Steel Thickness 1 1/8 Greatest pitch of stays 13 3/8 Working pressure of plate by rules 184 lbs
 Diameter of tubes 3 1/4 Pitch of tubes 4 1/4 Material of tube plates Steel Thickness: Front 1 1/8 Back 2 5/32 Mean pitch of stays 8 1/2
 Pitch across wide water spaces 14 1/8 Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 2 x 3/4 x 8 1/4 Length as per rule 30 3/4 Distance apart 7 7/8 Number and pitch of stays in each 3 x 7
 Working pressure by rules 190 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut-off and the boiler worked
 separately No 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 —

W449-0207

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? *No*

SPARE GEAR.

State the articles supplied:—

2 Connecting rod top end bolts and nuts, 2 bottom end bolts and nuts, 2 steam bearing bolts, 1 set of coupling bolts, 1 set of fuel and oil pump valves, 1 set of piston springs for each cylinder, a quantity of assorted bolts and nuts, iron of various sizes, 1 propeller and shaft, 1/2 top end 1/2 bottom end braces, 1 eccentric strap complete, 1 big pump rod, 1 circulating pump rod, 1 fuel pump ram, 1 set of shut-off valves, 6 pump bearing bolts, 2 Condenser tubes, 25 feet 12 boiler tubes, 1 HP piston valve.

WERF GUSTO

The foregoing is a correct description,

p. proc. v/d. Raad van Beheer

De Directeur:

De Administrateur:

Manufacturer.

Dates of Survey while building

During progress of work in shops --
During erection on board vessel --
Total No. of visits

Dec 7-17 Jan 26 Feb 25 March 14 April 20

May 9-10-16-23-24-30-31 June 10-15-19-22 July 12-17-27-31 Aug 3

22

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

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 8/12-15-16 Slides 8/12-15-16 Covers 8/12-15-16 Pistons 8/12-15-16 Rods 8/12-15-16

Connecting rods 8/12-15-16 Crank shaft 8/12-15-16 Thrust shaft in Tunnel shafts 8/12-15-16 Screw shaft 8/12-15-16 Propeller 8/12-15-16

Stern tube 8/12-15-16 Steam pipes tested 8/12-15-16 Engine and boiler seatings 8/12-15-16 Engines holding down bolts 8/12-15-16

Completion of pumping arrangements 8/12-15-16 Boilers fixed 8/12-15-16 Engines tried under steam 8/12-15-16

Main boiler safety valves adjusted 8/12-15-16 Thickness of adjusting washers Starb 8/12-15-16 Port 8/12-15-16

Material of Crank shaft S.H. Identification Mark on Do. AB 5-16 Material of Thrust shaft S.H. Identification Mark on Do. 10325KH

Material of Tunnel shafts S.H. Identification Marks on Do. 10341KH Material of Screw shafts S.H. Identification Marks on Do. 10321KH

Material of Steam Pipes Steel Test pressure 600 lbs.

Is an installation fitted for burning oil fuel *No*

Is the flash point of the oil to be used over 150°F. *Yes*

Have the requirements of Section 49 of the Rules been complied with *Yes*

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 and boilers having been constructed and fitted in accordance with the approved plans and Secretary's letter (Boilers constructed at Grace Berhar and upon arrival at this port examined and tested as per Secretary's letter 11 April 1916) material tested as required, workmanship good and the whole having worked satisfactorily during a trial trip, it is of opinion that the vessel is eligible to be recorded in the Register book with record of L.M.C. 8.16

It is submitted that this vessel is eligible for THE RECORD L.M.C. 8.16

The amount of Entry Fee ...

£2400

When applied for,

Special ...

£3600

14/6/16

Donkey Boiler Fee ...

£1200

When received,

Travelling Expenses (if any) ...

£1200

19/8/16

Committee's Minute

TUE 22 AUG. 1916

Assigned

H.L. MC 8.16

TRW 24/10/16

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping



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