

REPORT ON MACHINERY.

No. 41428

Received at London Office THU. 29 DEC. 1921

Writing Report April 16th 1921 When handed in at Local Office 12-10-21 Port of GLASGOW

Survey held at Ardrossan Date, First Survey 17th Feb. Last Survey 23rd Feb 1921

on the SS SVANFOS Langfjord (Number of Visits 2)

Built at Ardrossan By whom built Ardrossan S.B. & DD Coy Tons Gross 964

made at Greenock By whom made J. G. Kincaid & Co Ltd when made 1921

made at Greenock By whom made J. G. Kincaid & Co when made 1921

red Horse Power 142 Owners Norwegian American Sloop Port belonging to Christiania

Horse Power as per Section 28 142 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft No. of Cranks

screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

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

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

are fitted, is the shaft lapped or protected between the liners Length of stern bush

Tunnel shaft Dia. of Crank shaft journals Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under

Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

Propeller / Engine Room In Holds, &c.

Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

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

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

Are they pipes are carried through the bunkers How are they protected

Are they Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Are they Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

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

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

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 fire grate in each boiler No. and Description of Safety Valves to

Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

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

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

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

Stages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell

Compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Thickness of plates Description of longitudinal joint No. of strengthening rings

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

Working pressure of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

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

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

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

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

Working pressures by rules Girders to Chamber tops: Material Depth and

Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules Steam dome: description of joint to shell % of strength of joint

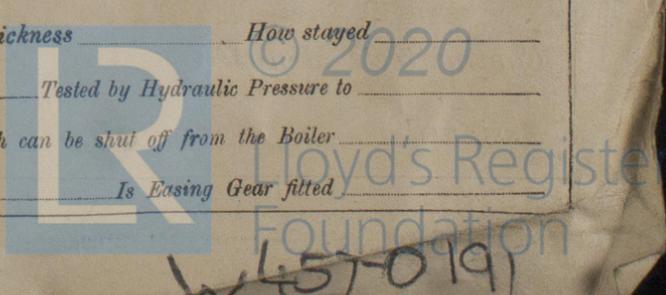
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

REHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1921 Feb 17-23. During erection on board vessel - - - Total No. of visits 2.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller Stern tube Steam pipes tested Engine and boiler seatings 23-2-21 Engines holding down bolts Completion of pumping arrangements Boilers fixed Engines tried under steam Completion of fitting sea connections 23-2-21 Stern tube 14-2-21 Screw shaft and propeller 23-2-21 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 Identification Marks on Do. Material of Screw shafts 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 seacocks, stern tube and propeller have been fitted in a satisfactory manner. The vessel has proceeded to Greenock for machinery.

Certificate (if required) to be sent to The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ : : When applied for, 17/11/1921 Special ... £ : : When received, 4/12/22 Donkey Boiler Fee ... £ : : Travelling Expenses (if any) £ - : 10 : 1921

David C Barr Engineer Surveyor to Lloyd's Register of Shipping

GLASGOW 27 DEC 1921

Committee's Minute Assigned See Gen. Rpt. No. 17909

