

REPORT ON MACHINERY.

No. 41428

Received at London Office

THU. 29 DEC. 1921

Writing Report April 16th 1921 When handed in at Local Office 12-10-10 21 Port of GLASGOWSurvey 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. & D.D. Coy Tons { Gross 964
Net 451

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 Owners Norwegian American S.S. Co Port belonging to Christiania

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

MACHINERY, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft

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 as per rule as fitted Dia. of Crank shaft journals as per rule as fitted 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

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

Gy 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

Gy 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

pipes are carried through the bunkers How are they protected

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

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

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

HEATERS, &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

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 rivets Working pressure of shell by rules Size of manhole in shell

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

of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

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

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

Area of stays 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

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

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

ss of girder at centre 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

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

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

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

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

of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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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 23-2-2
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

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

David C Barr

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned See Gen. Rpt. No. 17909



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