

REPORT ON MACHINERY.

No. 7

Received at London Office

REC'D NEW YORK July 2 1919

Port of Cleveland

Date, First Survey 25 June 1918 Last Survey

19

of writing Report

When handed in at Local Office

(Number of Visits

Survey held at Cleveland, O.

Book. ENTRY on the Hood Twin Screw S. "TROLLTIND" (Builders Jnd No 1)

Gross 2174.6
Net 1590.5

Built at Seattle Wash. By whom built Elliott Bay Shipbuilding Co. When built 1919

By whom made Winton Engine Works

By whom made

Port belonging to New York

Horse Power 500 Each Owners Anglo Norwegian Shipping Corp.

Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted yes

FINES, &c.—Description of Engines Twin 4 Cycle S.A. Diesel No. of Cylinders 8 No. of Cranks 8
Length of Stroke 18 Revs. per minute 250 Dia. of Screw shaft as per rule as fitted Material of screw shaft

Is the after end of the liner made water tight

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

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

as per rule 2 flywheels fitted as per rule 7.597 Dia. of Crank pin 8 Size of Crank webs 11 x 4 3/8 Dia. of thrust shaft under

of Tunnel shaft as fitted Dia. of Crank shaft journals as fitted 8

7.75 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.

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

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

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

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

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

How are they protected

pipes are carried through the bunkers

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

the 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

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

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

ing 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

boiler 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

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

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

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

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

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

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

Working pressure of furnace by the rules If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:

ch of stays to ditto: Sides Back Top Working pressure by rules Material of stays

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

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

Area at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules

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

Mean pitch of stays

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

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

Thickness 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

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

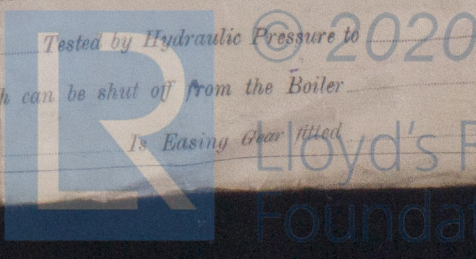
ch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

PERHEATER. 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

meter of Safety Valve



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

WINTON ENGINE WORKS.

Manufacturer.

1918
Dates of Survey while building
During progress of work in shops --
During erection on board vessel ---
Total No. of visits Shop 16

Is the approved plan of main boiler forwarded herewith

FINAL

Dates of Examination of principal parts—Cylinders 26.7.18 Slides 14.8.18 Covers 8.8.18 Pistons 15.8.18 Rods 15.8.18
Connecting rods 15.8.18 Crank shaft Philadelphia Thrust shaft 21.8.18 Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark 375 3027 WJS/3028 WJS. Material of Thrust shaft Steel Identification Mark 375 1034 WL

Material of Tunnel shafts Steel Identification Mark 375 952 WL 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. A Three stage Tandem air compressor of 12 1/2" 6" 2 1/2" Bore x 10 1/2" Stroke, driven by crank bolted to forward end of main crank shaft, supplies air at 1000 lb. per sq. inch

The above Engines have been constructed under Special Survey, the materials and workmanship employed in their manufacture, so far as can be seen, are sound and good. On the engines being satisfactorily installed in vessel, and proving satisfactory under working conditions, spare gear, as required by the Rules being supplied. The Vessel in which they are fitted, will, in my opinion, be eligible for record + L.T.C. with date.

The amount of Entry Fee ... £ 260 : 00 :
Special ... £ 60 : 00 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 20 Sept 1918
When received, 28/8/19 RBR

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York JUL 8 - 1919

Assigned see Sea Rpt 845



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