

REPORT ON MACHINERY.

No. 2546

REC'D NEW YORK

Received at London Office

Date of writing Report 1917 When handed in at Local Office 1917 Port of

No. in Survey held at Oakland, California Date, First Survey May 23rd, 1917 Last Survey July 6th, 1917

Reg. Book. on the T. S. Wood Schooner "H. C. HANSEN".

Master Built at Tacoma, Wash. By whom built Seaborn Shipyards Co. When built 1917

Engines made at Oakland, California By whom made Skandia Pacific Oil Engine Co. when made 1917

Boilers made at Oakland, California By whom made Port belonging to

Registered Horse Power 240 each Owners Captain H. C. Hansen Is Electric Light fitted

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

ENGINES, &c.—Description of each Engines Crude Oil Engine--2 stroke cycle. No. of Cylinders 4 No. of Cranks 4

Dia. of Cylinders 11.81 Length of Stroke 15.748 Revs. per minute 300 Dia. of Screw shaft 6.69 Material of screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube 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 15.9x8.6x3.8

Dia. of Tunnel shaft 6.69 Dia. of Crank shaft journals 6.69 Dia. of Crank pin 6.69 Size of Crank webs 15.9x8.6x3.8

collars 6.69 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

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

No. of Bilge pumps 2 Diameter of ditto 2.2 Stroke 3 Can one be overhauled while the other is at work No.

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

In Engine Room In Holds, &c.

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

Are 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

Are all 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

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

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

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 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

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

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

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

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

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

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

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:

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

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

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 Mean pitch of stays

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

Pitch 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 % of strength of joint

Working pressure by rules Steam dome: description of joint to shell Diam. of rivet holes

Diameter Thickness of shell plates Material Description of longitudinal joint Thickness How stayed

Pitch of rivets Working pressure of shell by rules Crown plates Tested by Hydraulic Pressure to

SUPERHEATER. Type Date of Approval of Plan Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Date of Test Pressure to which each is adjusted Is Easing Gear fitted

ometer of Safety Valve

W656-0289

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 - - May 23rd, 31st, June 4th, 18th, 29th, and July 6th, 1917.
During erection on board vessel - - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders May 23rd Slides - Covers May 23rd Pistons May 23rd Rods -

Connecting rods June 24 Crank shaft May 23 Thrust shaft May 23 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 Thrust and Steel 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 applied to cylinders 500 lbs.

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 Yes. If so, state name of vessel "W. F. Burroughs"

General Remarks (State quality of workmanship, opinions as to class, &c.

This twin set of oil engines has been built under Special Survey, of materials tested in accordance with the Rules, and the workmanship was found good throughout. The engines have been shipped to Tacoma for installation in vessel and to complete the survey it remains to test same under various working conditions in position - spare gear as per Rules to be supplied and placed on board.

(*) No. 109 Shaft.

LLOYD'S
No. 68
R.B.12/16

No. 110 Shaft

LLOYD'S
No. 329
-16-2-17

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 150.00 : : 19.
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19.

Committee's Minute

New York NOV 27 1917

Assigned

See Sea Rpt No 534

Blackett
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation