

REPORT ON MACHINERY.

No. 20369
4154

Received at London Office MON. 13 JUN. 1921

of writing Report 10 When handed in at Local Office 10 Port of *Philadelphia*

in Survey held at *Chester Pa* Date, First Survey Last Survey 19

on the S.S. "SAN UGON" (Hull No 31.) (Number of Visits) *No D*

Master Built at *Shorter Island N.Y.* By whom built *Standard Shipbuilding Corp* Tons { Gross
Net

Engines made at *Chester Pa* By whom made *San Shipbuilding Co* When built 1921

Boilers made at By whom made when made

Registered Horse Power Owners *Eagle Oil Transport Co.* Port belonging to *London*

Net Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GINES, &c.—Description of Engines *Triple Expansion* No. of Cylinders 3 No. of Cranks 3

a. of Cylinders *24" 45" 44"* Length of Stroke *48"* Revs. per minute *80* Dia. of Screw shaft as per rule Material of screw shaft as fitted

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

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

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

a. of Tunnel shaft as per rule *13.354* Dia. of Crank shaft journals as per rule *14.056* as fitted *14.5* Dia. of Crank pin *14.5* Size of Crank webs *24 1/2 x 9 1/2* Dia. of thrust shaft under

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

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

a. of Bilge pumps 2 Diameter of ditto 4" Stroke 26" Can one be overhauled while the other is at work *Yes*

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

Engine Room In Holds, &c.

a. 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

at pipes are carried through the bunkers How are they protected

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

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

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

al 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

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

Thickness 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

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

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

5. 2 th 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

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

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

erial 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

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

eter of tubes 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

of Shipping 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

eter 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

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

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

eter of Safety Valve 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,

Robert A. Hig

Manufacturer.

SUN SHIPBUILDING COMPANY
Dates of Survey while building { During progress of work in shops -- 1920 Aug 26. Sept. 2. 10. 24. Oct. 1. 7. 19. Nov. 5. 24. Dec. 3. 13. 28. 1921 Jan. 3. 11. 17. 21. Feb. 10. 15. 18. Apr. 4. 7.
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 28. 12. 20 15. 3. 21 Slides 11-1. 21 Covers 15. 3. 21 Pistons 5-11. 20 Rods 5-11. 20

Connecting rods 21-1. 21 Crank shaft 3. 12-20 Thrust shaft 13. 12. 20 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 on Do. *WC RS* Material of Thrust shaft *Steel* Identification Mark on Do. *RS*

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 Machinery of this vessel has been built under special survey materials and workmanship good. The machinery has been shipped to Choctaw Island to be fitted on board the vessel.

This machinery has been fitted in the S.S. "SAN UGO" in a workmanlike manner, and examined under working conditions and found satisfactory. See New York F.E. Report.

Ala. Lawrence
New York May 19. 1921

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

2/5 Fee Philadelphia

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

Philadelphia \$45.00

Committee's Minute New York MAY 31 1921

Assigned

See N.Y.K. Rpt. 20369

J. Adamson
Engineer Surveyor to Lloyd's Register of Shipping.

JUN 13 1922
TUE. 4 MAR. 1923



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Foundation