

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

MAY 15 1940

Date of writing Report

10

When handed in at Local Office

14 MAY 1940

Port of

HULL

No. in Survey held at

Hull

Date, First Survey

29. 3. 40

Last Survey

12. 5. 1940

Reg. Book.

28717 on the Single Screw Steamer "EMPIRE GANNET" ex "LOUISIANAN"

(Number of Visits 24)

Built at Seattle, Wash.

By whom built

J. F. Duthie &amp; Co.

Yard No.

Engines made at Hamilton, Ohio

By whom made

Hoover, Owens, Kentschle Engine No.

When built

5672

Boilers made at Portland, Oregon

By whom made

Willamette Iron Steel Works Boiler No.

When made

3445

Registered Horse Power

Owners

Ministry of Shipping

Port belonging to

When made

1919

Nom. Horse Power as per Rule

550

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

Yes

Trade for which Vessel is intended

General cargo steamer

ENGINES, &amp;c.—Description of Engines Reciprocating Triple Expansion

Revs. per minute 78

Dia. of Cylinders 24 1/8", 41 1/2", 72"

Length of Stroke 48"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals

as per Rule 13 3/32"

Crank pin dia. 14 5/16"

Crank webs

Mid. length breadth 28"

Thickness parallel to axis 9 1/2"

Intermediate Shafts, diameter

as per Rule 13 3/32"

as fitted 13 1/8"

Thrust shaft, diameter at collars

as per Rule

as fitted 13 3/32"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 14.5"

as fitted 15 3/8"

Is the tube

screw

shaft fitted with a continuous liner

72

Bronze Liners, thickness in way of bushes

as per Rule

as fitted

Thickness between bushes

as per Rule

as fitted

Is the after end of the liner made watertight in the

propeller boss

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

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

Is an approved Oil Gland or other appliance fitted at the after end of the tube

shaft

If so, state type

Length of Bearing in Stern Bush next to and supporting propeller 5-4"

Propeller, dia.

Pitch

No. of Blades

Material

whether Moveable

Total Developed Surface

sq. feet

Feed Pumps worked from the Main Engines, No. none

Diameter

Stroke

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 2

Diameter 4 1/8"

Stroke 21"

Can one be overhauled while the other is at work

Feed Pumps

No. and size

How driven

Pumps connected to the

No. and size

How driven

Ballast Pumps, No. and size

Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room

In Pump Room

In Holds, &amp;c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

Are all Sea Connections fitted direct on the skin of the ship

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

What Pipes pass through the bunkers

What pipes pass through the deep tanks

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

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from E.R. Top

MAIN BOILERS, &amp;c.—(Letter for record 5) Total Heating Surface of Boilers 8,100 sq. feet.

Is Forced Draft fitted

No. and Description of Boilers 3 cylindrical multitubular Working Pressure 210 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

Is the donkey boiler intended to be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting

(If not state date of approval)

Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

## SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

One spare screwshaft (ca) see sketch

Propeller boss &amp; four blades

One main engine valve spindle

One pair of top end brasses.

The foregoing is a correct description.

Manufacturer.



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Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

Date of writing

No. in Reg. Book.

28717 on

Built at

Engines made

Boilers made

Nominal Horse

MULTIPLE

Manufactured

Total Heating

No. and Des

Tested by

Area of Fire

Area of each

In case of

Smallest dist

Smallest dist

Largest inter

Thickness

long. seams

Percentage of

Percentage of

Thickness of

Material

Length of pl

Dimensions of

End plates in

How are stan

Tube plates:

Mean pitch of

Girders to co

at centre

in each

Tensile stren

Pitch of stays

Front plate

Thickness

Pitch of stay

Main stays:

Diameter

Screw stays

Diameter

Over

Over

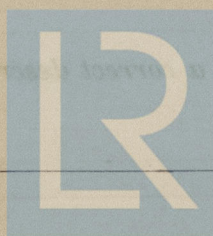
Certificate to be sent to  
The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	...	£	:	:	When applied for,
Special	...	£	20	:	19
Donkey Boiler Fee	...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	13/6 1940

*W. S. Shields & A. C. Lewis, Juniors*  
Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute

Assigned *See repair rpt - Hull. 50653*



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