

## REPORT ON MACHINERY

No. 40, 894

Received at London Office

WED. JUN. 23 1920

Writing Report

19

When handed in at Local Office

19

Port of

Glasgow

Survey held at

Glasgow

Date, First Survey 28-1-20

Last Survey 15-6-1920

Book.

on the

S/S "FIR PARK"

(Number of Visits 10)

Tons

Gross

Net

When built 1920

when made 1920

when made 1920

s made at

Dundee

By whom made

Coopers &amp; Greig Ltd

s made at

"

By whom made

do

red Horse Power

Owners

Deulohm Shipping Co Ltd

Port belonging to Greenock

Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

NES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Cylinders

21

35

57

Length of Stroke

36

Revs. per minute

78

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

ine Room

In Holds, &amp;c.

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room &amp; 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

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

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

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

RS, &amp;c.—(Letter for record (17) Manufacturers of Steel

Painting Surface of Boilers

3496

Is Forced Draft fitted

No

No. and Description of Boilers

2 Single Ended 2 S.B.

Pressure

180

Tested by hydraulic pressure to

360

Date of test

No. of Certificate

boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

Double Spring

Area of each valve

4.07

Pressure to which they are adjusted

185

Are they fitted with easing gear

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

es of strength of longitudinal joint

rivets

plate

Working pressure of shell by rules

Size of manhole in shell

compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

ays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

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

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

of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

33 wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

ets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

EATER. 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

Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

504-0130

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IS A DONKEY BOILER FITTED?

SPARE GEAR. State the articles supplied:—

If so, is a report now forwarded?

*Yes*  
*Spare gear checked & found in order*

The foregoing is a correct description,

Manufacturer.

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

1920 Jan 28 Feb 6 10 16 17 20 Mar 12 May 20 June 15

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders

Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller  
Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements 20-5-20 Boilers fixed Engines tried under steam 15-6-20

Completion of fitting sea connections 20-2-20 Stern tube 12-3-20 Screw shaft and propeller

Main boiler safety valves adjusted 20-5-20 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 engines have been tried under steam with satisfactory results*  
*The machinery of this vessel is eligible in my opinion for the record of L.M.C. 6-20*

*It is submitted that this vessel is eligible for the record L.M.C. 6-20*

*W.G. 2/7/20*  
*J.W.D. J.M.*

The amount of Entry Fee ... £ : :  
Special ... £ : :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ 1 : 5 :  
When applied for, 22 JUN 1920  
When received, 25/6/20

Committee's Minute GLASGOW 22 JUN 1920

Assigned + L.M.C. 6, 20

MACHINERY CERT  
WRITTEN  
23/6/20

*W. Gordon Macneil*

Engineer Surveyor to Lloyd's Register of Shipping.



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