

## REPORT ON MACHINERY.

No. 2975

Received at London Office

THU 10 FEB. 1921

Writing Report 29 Jan 1921 When handed in at Local Office

Port of

Mayard

Survey held at H M Dockyard

Date, First Survey 29 Aug 20 Last Survey 24 Jan 1921

Book. 29 on the Steam Trawler "James Peake"

(Number of Visits)

Built at Middlesbrough By whom built Smith's Dock Co Ltd

Tons { Gross 275  
Net 107

Machinery made at Middlesbrough By whom made Smith's Dock Co Ltd

When made 1917

Machinery made at Newcastle By whom made Hawthorn, &amp; Leslie

When made 1917

Registered Horse Power

Owners

Port belonging to

Horse Power as per Section 28

87

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

MACHINERY, &amp;c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Diameter of Cylinders

12 1/2 x 21 x 35

Length of Stroke

26

Revs. per minute

110

Dia. of Screw shaft

7 5/8

Material of screw shaft

Iron

Screw shaft fitted with a continuous liner the whole length of the stern tube

Yes

Is the after end of the liner made water tight

Propeller boss

Yes

If the liner is in more than one length are the joints burned

Yes

If the liner does not fit tightly at the part

On the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

If two

If two are fitted, is the shaft lapped or protected between the liners

Length of stern bush

34

Diameter of Tunnel shaft

6.57

Dia. of Crank shaft journals

6.9

Dia. of Crank pin

7 3/8

Size of Crank webs

14 x 4 1/2

Dia. of thrust shaft under

Diameter of screw

9.6

Pitch of Screw

11 1/2

No. of Blades

4

State whether moveable

No

Total surface

35 1/2

No. of Feed pumps

2

Diameter of ditto

2 1/2

Stroke

12

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2 1/2

Stroke

12

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Sizes of Pumps

6 x 3 x 6

6 x 4 x 6

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

In Holds, &amp;c. 1 from fore hold 1 2" from

Engine Room

2" forward

2" aft &amp; 12" high each

In Holds, &amp;c.

1 from fore hold

1 2" from

each hold, also Superheated 2" ejector acting from all parts

Bilge Injections

1

sizes 3 1/2"

Connected to condenser, or to circulating pump

pump

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

Yes 4" each

All the bilge suction pipes fitted with roses

Yes

Are the roses in Engine room always accessible

Yes

Are the sluices on Engine room bulkheads always accessible

None

All connections with the sea direct on the skin of the ship

Yes

Are they Valves or Cocks

Both

Are they

Valves or Cocks

Both

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

Yes

Are the Discharge Pipes above or below the deep water line

above

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

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

Are the pipes carried through the bunkers

Forward Suctions

How are they protected

wood casing

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

Yes

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

Yes

Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

Yes

Is it

fitted with a watertight door

worked from

Yes

MACHINERY, &amp;c.—(Letter for record)

(S)

Manufacturers of Steel

Heating Surface of Boilers

1619

Is Forced Draft fitted

No

No. and Description of Boilers

Cylindrical multibubblers

Working Pressure

180 lb

Tested by hydraulic pressure to

360

Date of test

11.11.17

No. of Certificate

Yes

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

50

No. and Description of Safety Valves to

boiler

Two direct Spring

Area of each valve

4.9

Pressure to which they are adjusted

185 lb

Are they fitted with easing gear

Yes

Least distance between boilers or uptakes and bunkers or woodwork

8"

Diameter of boilers

13.6"

Length

10.6"

Material of shell plates

S

Tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

double

seams

TRANS

Diameter of rivet holes in long. seams

1 5/8"

Pitch of rivets

8"

Lap of plates or width of butt straps

17"

Mountings of strength of longitudinal joint

rivets

89.3

plate

85.5

Working pressure of shell by rules

180

Size of manhole in shell

16" x 12"

f compensating ring

9-1 1/2"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

40 9/16"

Height of plain part

top

81"

Thickness of plates

crown

25"

Description of longitudinal joint

Welded

No. of strengthening rings

-

Working pressure of furnace by the rules

188

Combustion chamber plates: Material

S

Thickness: Sides

5/16"

Back

2 1/2"

Top

1/16"

Bottom

2 3/8"

Pitch of stays to ditto: Sides

10 x 2 3/8"

Back

9 1/2 x 7 1/2"

Top

9 x 10"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

181

Material of stays

S

Area at smallest part

2.07

Area supported by each stay

90.25

Working pressure by rules

206

End plates in steam space:

Material

S

Thickness

Area at smallest part

6.10

Area supported by each stay

290

Working pressure by rules

215

Material of Front plates at bottom

S

Material of Lower back plate

S

Thickness

15/16"

Greatest pitch of stays

14 x 9"

Working pressure of plate by rules

219

Pitch of tubes

5 x 4 3/4"

Material of tube plates

Pitch of tubes

5 x 4 3/4"

Material of tube plates

S

Thickness: Front

3 1/2"

Back

2 3/8"

Mean pitch of stays

10"

Working pressures by rules

184

Girders to Chamber tops: Material

S

Depth and

width of girder at centre

8 1/2 x 1 3/4"

Length as per rule

32"

Distance apart

9"

Number and pitch of stays in each

2

9" x 16"

Working pressure by rules

197

Steam dome: description of joint to shell

-

% of strength of joint

-

Thickness of shell plates

-

Material

-

Description of longitudinal joint

-

Diam. of rivet holes

-

Working pressure of shell by rules

-

Crown plates

-

Thickness

-

How stayed

-

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

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

-

Type

-

Date of Approval of Plan

-

Tested by Hydraulic Pressure to

-

Is a Safety Valve fitted to each Section



IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 top end bolts, and nuts 2 bottom end bolts, and nuts 2 main bearing hearing bolts, and nuts 1 Coupling bolts, and nuts 1 Complete set of suction, and delivery valves for each Auxiliary pump a set of valves main bridge, and feed pumps main, and donkey chest valve 3 plain boiler tubes 3 Condenser tubes, & ferrules 1 Escape valve spring, and nuts & bolts assorted

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

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders	Slides	Covers	Pistons	Rods
Connecting rods	Crank shaft	Thrust shaft	Tunnel shafts	Screw shaft
Stern tube	Steam pipes tested	Engine and boiler seatings	Engines holding down bolts	Propeller
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 Iron	Identification Mark on Do. ✓	Material of Thrust shaft Iron	Identification Mark on Do. ✓	
Material of Tunnel shafts ✓	Identification Marks on Do. ✓	Material of Screw shafts Iron	Identification Marks on Do. ✓	
Material of Steam Pipes S D Copper ✓	Test pressure			

Is an installation fitted for burning oil fuel All ✓ 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. Yes ✓

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 workmanship of this vessels machinery appears to be good & being built under British Corporation Survey to plans, and specification mutually agreed by this Society, and the British Corporation, and in my opinion is eligible to have class L.M.C 1. 21 assigned

Certificate (if required) 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 ... £	:	:	19...
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19...

Committee's Minute TUE. 15 FEB. 1921

Assigned

L.M.C 1. 21 subject

J. H. Johnstone

Engineer Surveyor to Lloyd's Register of Shipping

FRI. 27 JAN. 1922

TUE. 14 FEB. 1922

FRI. 17 FEB. 1922

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