

24 cup 4s. "Miramar"

Low No 810

No. 5414

# REPORT ON REFRIGERATING MACHINERY AND INSULATION.

(Received at London Office)

MUN. APL 21 1902

Date of writing Report 18<sup>th</sup> April 1902 When handed in at Local Office

No. in Reg. Book. 18<sup>th</sup> April 1902 held at

Date: First Survey

Port of Belfast

Last Survey

18

(No. of Visits)

on the Refrigerating Appliances of the Iron or Steel

Tons { Gross  
Net

Vessel built at

By whom

Port

Voyage

System.

Machinery made by

When

Insulation fitted by

When

Non-conducting material used

Number of insulated chambers

Total capacity 252000 cub. ft.

## DESCRIPTION OF MACHINES, ETC.

No. of machines

Single or duplex

Where placed

Power of each machine in tons of ice melted per 24 hours

Sizes of steam cylinders

Stroke

Revolutions per minute

Working pressure

No. of compression cylinders

Diameter of each

Single or double acting

Stroke

Diameter of crank shaft

How are air, circulating and feed pumps

worked

Are they in duplicate

Can their work be performed by main engines

No. of gas condenser coils

Can each be readily disconnected

No. of refrigerator coils

Can each be readily disconnected

No. of brine pipe sections

Can each be readily disconnected

What test has been applied to gas cylinders and

coils

to cast iron connections

to refrigerator coils

to brine pipe sections

Are outlets of brine return pipes accessible

Is each fitted with a thermometer

What pipes in connection with refrigerating appliances are carried through bunkers or holds

How are they protected

What means are adopted for draining engine room

Is all necessary auxiliary machinery supplied

## SPARE GEAR. ARTICLES REQUIRED BY RULES AND SUPPLIED.

## ADDITIONAL SPARE GEAR SUPPLIED.

ARTICLES REQUIRED BY RULES AND NOT SUPPLIED

The foregoing is a correct description.

Manufacturers.

## GENERAL REMARKS AND RECOMMENDATION (If Survey is not complete state what remains to be done)



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Lloyd's Register Foundation

W708-001



DESCRIPTION OF INSULATION.	IN LOWER HOLDS.					IN TWEEN DECKS.				
	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of ditto.	Inner Lining.	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of ditto.	Inner Lining.
SIDES .....										
OVERHEADING .....										
BULKHEADS No. 1. F ..										
"    "    A ..										
"    No. 2. F ..										
"    "    A ..										
"    No. 3. F ..										
"    "    A ..										
"    No. 4. F ..										
"    "    A ..										
"    No. 5. F ..										
"    "    A ..										
"    No. 6. F ..										
"    "    A ..										

RIBBAND, MAIN DECK

BOTTOM

HATCHWAYS

FRESH WATER TANKS

TUNNEL

SNOW BOX

MASTS

STANCHIONS

BILGE SUCTION & AIR & SOUNDING PIPES

Centre Keelson, Sides

Bilge

Bilge Stringers, Top

Side

Hold or Orlop Stringer, Top

Brackets

Are insulated hatches fitted over limbers

Are insulated plugs fitted in way of all sluices

Are insulated plugs fitted to ventilators

Are the bottoms, sides and coamings of all insulated hatches coated to prevent decay

Are portable boxes fitted in overheadings for replenishing side insulation

What means, if any, are taken to protect the bottom insulation in way of hatchways

Dimensions of cargo battens, on sides

Are these permanently fixed or portable

Number of thermometer tubes in each chamber

Position of

Are the flanges and covers of thermometer tubes efficiently fitted

Description and arrangement of trunkways or brine pipes for the distribution of cold

Top

Top

Bottom

Bottom

Bottom

Sides

to cargo ports

in side insulation for examination of ship's side

on bottom

spacing

and manhole doors of tanks

bilge suction

sounding pipes

Face

Face

Face

Face

Face

Side Keelson, Sides

Web frames, Sides

Face

Face

Face

Face

Face

and on tunnel tops

Are all wood linings tongued and grooved

are water-tight doors fitted

and efficiently insulated

Are insulated hatches fitted over limbers

Are insulated plugs fitted in way of all sluices

Are insulated plugs fitted to ventilators

Are the bottoms, sides and coamings of all insulated hatches coated to prevent decay

Are portable boxes fitted in overheadings for replenishing side insulation

What means, if any, are taken to protect the bottom insulation in way of hatchways

Dimensions of cargo battens, on sides

Are these permanently fixed or portable

Number of thermometer tubes in each chamber

Position of

Are the flanges and covers of thermometer tubes efficiently fitted

Description and arrangement of trunkways or brine pipes for the distribution of cold

Do any trunkways pass through water-tight bulkheads

What means are adopted for closing the trunkways when carrying general cargo

The foregoing is a correct description.

Builders.

PARTICULARS TO BE ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System or (1) Refrigerating (2) Insulating the Chambers	POWER.		INSULATED CARGO CHAMBERS.	
No. and whether Single or Duplex.	Makers.	Date of Construction.	System.	Type.		Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours. Tons.	No.	Capacity.
Duplex	Robt. Hall & Co.	1902	C.O.2	Marine Brine	Charcoal		5	6	252000

Fee

Travelling Expenses

£

:

:

{ Fee applied for,

18

{ Received by me,

18

B. J. Pennington

Surveyor to Lloyd's Register.

Committee's Minute

Assigned