

(Received at London Office

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**When handed in at Local Office**

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Port of London

No. in

Reg. Book. *Survey held at Hartford.* Date: First Survey *4<sup>th</sup> Feb. 1921* Last Survey *22<sup>nd</sup> July* 1921  
*22142* (No. of Visits) *Eight*

on the Refrigerating Appliances of the ~~Iron or Steel~~ **T.S.S. LARGES BAY.** Master

GROSS 12500. Vessel, built at Glasgow By whom W. Beardmore & Co. Ld. When 1921

[illegible]

Carb. Anthy. System. Machinery made by J & E. Hall L<sup>rs</sup> When 1921

*Insulation fitted by*

Non-conducting material used \_\_\_\_\_ Number of insulated chambers 10 Total capacity 380,000 cub. ft.

### DESCRIPTION OF MACHINES, ETC.

No. of machines *Two* Single or duplex *Single* Where placed *on main table in above engine room*

Power of each machine in tons of ice melted per 24 hours 66. Sizes of steam cylinders 12" and 24" Stroke 21"

Revolutions per minute 70 Working pressure \_\_\_\_\_ No. of compression cylinders 1, each  $\frac{3}{4}$ " Diameter of each 6  $\frac{5}{16}$ "

Single or double acting double Stroke 21" Diameter of crank shaft 7 1/2" How are air, circulating and feed pumps

worked air pump off crank shaft ind. air pump. Are they in duplicate Yes Can their work be performed by main engines Yes

No. of gas condenser coils <sup>safe</sup> 15 each Can each be readily disconnected Yes No. of refrigerator coils <sup>safe</sup> 11 each Can each be readily disconnected Yes

No. of brine pipe sections 80. Can each be readily disconnected Yes What test has been applied to gas cylinders and

coils, 3000 lbs hyd 1350 lbs air to cast iron connections 100 lbs  $\frac{1}{2}$ " hyd to refrigerator coils, 3000 lbs hyd 1350 lbs air

to brine pipe sections *Go the air* Are outlets of brine return pipes accessible *Yes* Is each fitted with a thermometer *Yes*

What pipes in connection with refrigerating appliances are carried through bunkers or holds. *Pipes for return* How are they protected *insulated*

What means are adopted for draining engine room \_\_\_\_\_ Is all necessary auxiliary machinery supplied \_\_\_\_\_

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

- 2 sets of spring rings for compressor pistons.
- 1 set of special metal backing rings for compressor glands.
- 2 compressor pistons & rods, with springs & rings.
- 2 sets each of 4 valves, seats & springs for compressors.
- 1 guide for guiding in compressor valves.
- 1 spindle for CO<sub>2</sub> regulator valve.
- 1 frame pump complete.
- 1 set of valves & springs for frame pump.
- 2 springs for water relief valve.
- 2 " " frame "safety" valve.
- 2 tubes and 24 ferrules for steam condenser.
- 1 hand pump for pressure lubricator.
- 1-7" CO<sub>2</sub> pressure gauge.
- 1 hydrometer.
- 1 special New tested Mercury thermometer.
- 12 safety valve discs.
- 1 CO<sub>2</sub> valve 1/8" bore with 3 spare pipes.
- 2 sets of copper joint rings for compressors.
- 1 " " " other joints.
- 12 "leathers" for lubricator piston gland.
- 1 set of 2 leather models.
- 12 additional springs for compressor valves.
- 1 set of valves & springs for water pump.
- 1 " " steam piston rings for water pump.
- 1 " " 3 valves for air pump.
- 1 set of piston rings for H.P. and L.P. cylinders.
- 2 brass coated thermometers.
- 36 assorted bolts & nuts.
- 3 lengths each 1 1/4" & 1 1/2" W.I. piping.
- 3 rods.
- 12 sockets and "back" nuts each 1 1/4" and 1 1/2" g.
- 1 set of tapered die to screw 1 1/4" and 1 1/2" gas threads.
- 1 pair of CO<sub>2</sub> flanges each of 2 sizes fitted.

ADDITIONAL SPARE GEAR SUPPLIED.

Sundry bird cocks ✓  
1 fitted box to hold compressor rods, valves &c.

Spares for four Motors

- 1 Spare armature.
- 1 regulator for do -
- 1 No volt coil
- 12 carbon brushes
- 2 bearing brushes

Stores.

100 flasks. (40 lbs dry with contents)

## ARTICLES REQUIRED BY RULES AND NOT SUPPLIED

**The foregoing is a correct description.**

FOR J. & E. HALL, LTD Manufacturers. *Chick* IN DIRECTOR.

### GENERAL REMARKS AND RECOMMENDATION

(If Survey is not complete state what remains to be done)

**GENERAL REMARKS AND RECOMMENDATION** (If survey is not complete state what remains to be done) *The machinery has been highly*  
*under special survey, the materials and workmanship are good. To include the vessel to the record of*  
*Alfred R.M.S. (with date) the machinery requires to be efficiently fitted on board. Some paper labels*  
*machinery maintained under working conditions, and the circulating cargo chambers cooled down*  
*to say 10° to 12° before loading a refrigerated cargo.*

*Surveyor to Lloyd's Register of Shipping.*



## 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

MASTS

TUNNEL

STANCHIONS

SNOW BOX

BILGE SUCTION &amp; AIR &amp; SOUNDING PIPES

Centre Keelson, Sides

Top

Side Keelson, Sides

Top

Bilge " Sides

Top

Web frames, Sides

Face

Bilge Stringers, Top

Bottom

Face

Side " Top

Bottom

Face

Hold or Orlop Stringer, Top

Bottom

Face

Brackets

Sides

Face

Are insulated hatches fitted over limbers

and manhole doors of tanks

Are insulated plugs fitted in way of all sluices

bilge suctions

sounding pipes

Are insulated plugs fitted to ventilators

to cargo ports

in side insulation for examination of ship's side

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

Are portable boxes fitted in overheadings for replenishing side insulation

and on tunnel tops

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

Dimensions of cargo battens, on sides

on bottom

spacing

Are these permanently fixed or portable

Number of thermometer tubes in each chamber

Position of do.

Are the flanges and covers of thermometer tubes efficiently fitted

Are all wood linings tongued and grooved

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

Do any trunkways pass through water-tight bulkheads

are water-tight doors fitted

and efficiently insulated

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 of (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.

For Fee £30 10 0  
Travelling Expenses £19 0 0

Fee applied for, 19  
Received by me, 27.2.19

Surveyor to Lloyd's Register.

Committee's Minute

FRI 30 DEC. 1921

Assigned



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Lloyd's Register  
Foundation

Certificate to be sent to