

REPORT ON REFRIGERATING MACHINERY AND INSULATION.

JUL AUG. 2 1921

(Received at London Office)

Date of writing Report

19

When handed in at Local Office

28 JUL 1921

Port of

LIVERPOOL.

No. in

Reg. Book. Survey held at Coalbrookdale & Warrington

Date: First Survey Decr 3<sup>rd</sup>/20

Last Survey July 15<sup>th</sup> 1921.

(No. of Visits)

4

on the Refrigerating Appliances of the Iron or Steel Vickers No. 573.

Master

Tons { Gross  
Net

Vessel built at Barrow

By whom Messrs Vickers, Ltd.

When 1921

Owners Commonwealth Govt. Line Port

Voyage

System. Machinery made by

When

Insulation fitted by

When

Non-conducting material used

Number of insulated chambers

Total capacity 370,000 cub. ft.

DESCRIPTION OF MACHINES, ETC.

No. of machines

2

Single or duplex

single

Where placed

under bridge dx.

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

100

Sizes of steam cylinders

14" x 26"

Stroke 21"

Revolutions per minute

65

Working pressure

220 lbs

No. of compression cylinders

1

Diameter of each

6 3/4"

Single or double acting

Stroke

21"

Diameter of crank shaft

9"

How are air, circulating and feed pumps

worked circ. pump 8x10x10 duplex; air pump off mains. Are they in duplicate

Yes

Can their work be performed by main engines

Yes

No. of gas condenser coils

16, each

Can each be readily disconnected

Yes

No. of refrigerator coils

12, each

Can each be readily disconnected

Yes

No. of brine pipe sections

75

Can each be readily disconnected

Yes

What test has been applied to gas cylinders and

coils 3000 & 1500 lbs

to steel connections

3000 & 1500 lbs.

to refrigerator coils

1500 lbs

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

3 duplex brine pumps; 4-30" fan motor driven;

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.

THE LIVERPOOL REFRIGERATION CO., LTD.

A. J. Adamson Manufacturers.

GENERAL REMARKS AND RECOMMENDATION

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

This machine has been constructed under Special Survey & the workmanship & materials are good. Compressors & coils tested as above, cylinders to 350 & 240 lbs. Is complete :- the machine & auxiliaries piping to be installed, insulation fitted, spare gear checked; and a cooling down test to be applied on completion

S. Townend.

A. J. Bassett

Surveyor to Lloyd's Register of Shipping.

002289-002297-0184



## 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 &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.
2, Single	Liverpool Refrigeration	1921	CO <sub>2</sub>	Liv. Refrig.	(1) Brine		100		

Fee *act Liv. 1/3.*

£ 12 : : : (Fee applied for, 28 JUL 1921

Travelling Expenses £ 3 : 11 : 6 (Received by me, 12<sup>th</sup> Aug 1921.

Committee's Minute LIVERPOOL

29 JUL 1921

Assigned

Transmit to London



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Lloyd's Register  
Foundation

Certificate to be sent to