

REPORT ON REFRIGERATING MACHINERY AND INSULATION.

Gallecster

(Received at London Office)

Date of writing Report 24th Oct 1917 When handed in at Local Office

No. in

Reg. Book

Survey held at

1404

on the Refrigerating Appliances of the Iron or Steel

S.S. MONTILLA

Tons

Gross 5597

Net 3500

Vessel built at

Port Glasgow

By whom

Russell & Co (693)

When

1914

Owners

Blue Star Line Ltd

Port

London

Voyage

Carbonic Anhydride System.

Machinery made by

The Haslam Foundry & Eng Co Ltd

When

1914

Insulation fitted by

The Liverpool Refrigeration Insulation Co Ltd

When

1914

Non-conducting material used

Grants Cork & Lignum

Number of insulated chambers

12

Total capacity

703,000, cub. ft.

DESCRIPTION OF MACHINES, ETC.

No. of machines - Single or duplex - Where placed *No 3 Shelter St*
 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 *yes*
 No. of gas condenser coils - Can each be readily disconnected - No. of refrigerator coils - Can each be readily disconnected -
 No. of brine pipe sections *102* Can each be readily disconnected *yes* What test has been applied to gas cylinders and
 coils - to cast iron connections - to refrigerator coils -
 to brine pipe sections *90 lbs air* Are outlets of brine return pipes accessible *yes* Is each fitted with a thermometer
 What pipes in connection with refrigerating appliances are carried through bunkers or holds *Lead & Return* How are they protected *Insulation + steel sheathing*
 What means are adopted for draining engine room *sumps* Is all necessary auxiliary machinery supplied *yes*

SPARE GEAR. ARTICLES REQUIRED BY RULES AND SUPPLIED.

ADDITIONAL SPARE GEAR SUPPLIED.

Please see London Report No 79807.

This installation has been well tested on board the *Blue Star* lead & return pipes tested in place. The Refrigerating Machines tested on all holds, Tween & Shelter decks. The average temperature reduced from 47°F to 6°F in 24 hours. No insulation test was carried out in consequence of the bulk loading cargo.

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)

This insulation is now in our opinion eligible to have Notification of + R.M.C. II (if red) in the Register Book.

It is submitted that this vessel is eligible for

THE RECORD + Lloyd's RMC II.17.

A. McLeand & Co. Surveyor to Lloyd's Register of British and Foreign Shipping.

DESCRIPTION OF INSULATION.

IN LOWER HOLDS.

IN 'TWEEN DECKS &
IN Shelter 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	none	none	Cork	10"	1" Double	none	none	Cork	10"	1" Double
OVERHEADING	"	"	"	11"	3/4"	"	"	"	10"	1"
BULKHEADS No. 1. F	1 1/2"	1 1/2" + (line)	"	10"	1"	"	"	"	10"	1"
" " A	none	none	"	9"	1"	"	"	"	5"	1"
" No. 2. F	"	"	"	5"	1"	"	"	"	5"	1"
" " A	"	"	Cotton	12"	1"	"	"	Cotton	12"	1"
" No. 3. F	"	"	"	12"	1"	"	"	"	12"	1"
" " A	"	"	Cork	5"	1"	"	"	Cork	5"	1"
" No. 4. F	"	"	"	9"	1"	"	"	"	5"	1"
" " A	"	"	"	10"	1"	"	"	"	10"	1"
" No. 5. F										
" " A										
" No. 6. F										
" " A										

Cant
BIDDING, MAIN DECK 6 Shelter Deck :- 6" x 3" Redwood, caulked + Paged.

BOTTOM (Tank Top) 7" cork 1" + 1 1/2" lining

HATCHWAYS Shelter Deck 9 1/2" Green Deck 8 1/2" Lower Hold 8 1/2" (Thickness overall including 1" D lining Top + Bottom)

FRESH WATER TANKS none

MASTS 5" cotton 2" solid lining

TUNNEL 10" cotton 3" solid lining; Short Rest 12" cotton 1" + 1 1/2" STANCHIONS (Round) 1" hair felt 1 1/2" solid lining

SNOW BOX none

BILGE SUCTION & AIR & SOUNDING PIPES in lining

Centre Keelson, Sides _____ Top _____ Side Keelson, Sides _____ Top _____

Bilge " Sides _____ Top _____ Web frames, Sides { FWD 9" COTTON, 1" D. LINING Face 2" + 1" WITH FELT
AFT 2" DO 1" DO

Bilge Stringers, Top _____ Bottom _____ Face _____

Side " Top _____ Bottom _____ Face _____

Hold Orlop Stringer ^{Nº 1. Hold ONLY} Top 2" cork, 1" D. LINING Bottom 9" cotton 1" D. Lining Face 2" + 1" lining with felt

Brackets mast + stinger Sides 2" cotton 2" solid lining Face 1" D. lining + felt.

Are insulated hatches fitted over tankers yes and manhole doors of tanks yes

Are insulated plugs fitted in way of all sluices no sluices bilge suction yes sounding pipes loose boards

Are insulated plugs fitted to ventilators yes to cargo ports no ports in side insulation for examination of ship's side loose boards

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

Are portable boxes fitted in overheadings for replenishing side insulation loose boards and on tunnel tops loose boards

What means, if any, are taken to protect the bottom insulation in way of hatchways 2" sheathing 2" thick

Dimensions of cargo battens, on sides 2" x 2" on bottom 3" x 3" spacing 13"

Are these permanently fixed or portable Portable on Tank Top, all others fixed

Number of thermometer tubes in each chamber 5 in each S. Hold. TD. + SD. No. 1: bin each 2 Hold TD. + SD. No 2, 3, 4 4 tubes

Position of " do. on port + star side

Are the flanges and covers of thermometer tubes efficiently fitted yes Are all wood linings tongued and grooved stepped

Description and arrangement of trunkways or brine pipes for the distribution of cold brine: Slids on ships sides

overheading + blids.

Do any trunkways pass through water-tight bulkheads no are water-tight doors fitted 1 to 10 hold and efficiently insulated yes

What means are adopted for closing the trunkways when carrying general cargo For THE LIVERPOOL ROGERSON INSULATION CO. LTD.

The foregoing is a correct description.

James Rogerson
Managing Director

"INSULATION 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	Haslam	1917	C.O ₂	Haslam	Brine Slide Tank Cork			12	303,000,

Fee applied for, 13/11 1907. Received by me, 21-1-1908

Travelling Expenses £ 11: 11: 10

Committee's Minute GLASGOW 13 NOV. 1917

Assigned + Lloyd's RMC 11.17

MACHINERY CERTIFICATE
WRITTEN. 15.11.17



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Foundation