

REPORT ON REFRIGERATING MACHINERY AND INSULATION

JULY 21 1921

(Received at London Office)

Date of writing Report 28 JUL 1921 When handed in at Local Office Port of LIVERPOOL. No. in Reg. Book. Survey held at Coalbrookdale & Warrington Date: First Survey Decr 3rd/20 Last Survey July 15th 1921

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

Tons Gross Vessel built at Barrow By whom Messrs Vickers, Ltd. When 1921 Net 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 air-423 circ-ballast dx. 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 2 duplex brine pumps; 4-30" frame motor driven;

Table with 2 columns: SPARE GEAR. ARTICLES REQUIRED BY RULES AND SUPPLIED. and ADDITIONAL SPARE GEAR SUPPLIED.

ARTICLES REQUIRED BY RULES AND NOT SUPPLIED

The foregoing is a correct description. THE LIVERPOOL REFRIGERATION CO., LTD. A. J. Adumson, 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. So 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.

	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 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.					POWER.		INSULATED CARGO CHAMBERS.		
No. and whether Single or Duplex.	Makers.	Date of Construction.	System.	Type.	System of (1) Refrigerating (2) Insulating the Chambers.	Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours.	No.	Capacity.
2, Single	Liverpool Refrigeration	1921	CO ₂	air Refrig.	(1) Brine		100		

Fee *act Cir. 1/3.* £ 12 : : : (Fee applied for, 28 JUL 1921
 Travelling Expenses £ 3 : 11 : 6 (Received by me, 12th Aug 1921.
 Committee's Minute LIVERPOOL 29 JUL 1921
 Assigned Transmit to London



Certificate to be sent to