

REPORT ON REFRIGERATING MACHINERY AND APPLIANCES.

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(No. of Visits ELEVEN)

on the Refrigerating Machinery and Appliances of the M.V. Salacia Tons { Gross 5495 Net 3286

Vessel built at Govan By whom built Harland + Wolff Ltd Yard No. 982 G When built 1936

Owners Donaldson Line Port belonging to _____ Voyage _____

Refrigerating Machinery made by J. E. Hall Ltd Machine No. 9584 When made 1936

Insulation fitted by _____ When fitted _____ System of Refrigeration CO₂ + Brine

Method of cooling Cargo Chambers Brine + Air Insulating Material used _____

Number of Cargo Chambers insulated 6 Total refrigerated cargo capacity 164,000 cubic feet.

DESCRIPTION OF REFRIGERATING MACHINERY. Where placed main deck port side

Refrigerating Units, No. of two N° of machines one - double Cubic feet of air delivered per hour _____

Total refrigeration or ice-melting capacity in tons per 24 hours 82½ Are all the units connected to all the refrigerated chambers yes

Compressors, driven direct or through double reduction gearing. Compressors, single or double acting double No. of cylinders 2

Diameter of cylinders 6" Diameter of piston rod 2¾" Length of stroke 21" No. of strokes per minute 150 each

Motive Power supplied from cross compound direct acting steam engine

Steam Engines, high pressure, compound, or triple expansion, surface condensing. No. of cylinders 2 Diameter 16" + 29"

Length of stroke 21 Working pressure _____ Diameter of crank shaft journals and pins 4½"

Breadth and thickness of crank webs 10 1/2 x 4 3/4 - 4 3/4 in - out No. of sections in crank shaft two Revolutions of engines per minute 45

Oil Engines, type 2 or 4 stroke cycle Single or double acting _____ B.H.P. _____

No. of cylinders _____ Diameter _____ Length of stroke _____ Span of bearings as per Rule _____

Maximum pressure in cylinders _____ Diameter of crank shaft journals and pins _____

Breadth and thickness of crank webs _____ No. of sections in crank shaft _____ Revolutions of engine per minute _____

Electric Motors, type _____ No. of _____ Rated _____ Kilowatts _____

Volts at _____ revolutions per minute. Diameter of motor shafts at bearings _____

Reduction Gearing, maximum shaft horse power at 1st pinion _____ Revolutions per minute at full power at 1st pinion _____

2nd pinion _____ 1st reduction wheel _____ main shaft _____ Pitch circle diameter, 1st pinion _____ 2nd pinion _____

1st reduction wheel _____ Main wheel _____ Width of face, 1st reduction wheel _____ Main wheel _____

Distance between centres of pinion and wheel faces and the centre of the adjacent bearings, 1st pinion _____ 2nd pinion _____

1st reduction wheel _____ Main wheel _____ Flexible pinion shafts, diameter 1st _____ 2nd _____

Pinion shafts, diameter at bearings, External, 1st _____ 2nd _____ Internal, 1st _____ 2nd _____

Diameter at bottom of teeth of pinion, 1st _____ 2nd _____ Wheel shafts, diameter at bearings, 1st _____

Main _____ Diameter at wheel shroud, 1st _____ Main _____

Gas Condensers, No. of 2 Cast iron or steel casings cast iron Cylindrical or rectangular cylindrical

No. of coils in each 12 Material of coils S.D. Copper 3/4" b. x 10' o.d. Can each coil be readily ~~shut off~~ or disconnected yes

Water Circulating Pumps, No. and size of one 10" x 12" x 12" V.D. how worked Steam direct Gas Separators, No. of 4

Gas Evaporators, No. of 2 Cast iron or steel casings steel Pressure or gravity type pressure

No. of coils in each casing 12 Material of coils S.D. Steel 1 1/2" b. x 15' o.d. Can each coil be readily ~~shut off~~ or disconnected yes

Direct Expansion or Brine Cooled Batteries, No. of 2 twin do. Are there two separate systems, so that one may be in use while the other is being cleared of snow no

No. of coils in each battery 4 in each unit Material of coils S.D. Steel 1 1/2" b. Can each coil be readily ~~shut off~~ or disconnected yes

Is a watertight tray fitted under each battery yes Total cooling surface of battery coils 9000 sq. ft.

Air Circulating Fans, Total No. of 2 - 34 1/2" each of 22500 cubic feet capacity, at 1645 revolutions per minute maximum

Steam or electrically driven electrically Where spare fans are supplied are these fitted in position ready for coupling up no

Brine Circulating Pumps, No. and size of, including the additional pump 3 - 8" x 9" x 8" V.D. how worked Steam-direct

Brine Cooling System, closed or open _____ Are the pipes and tanks galvanised on the inside _____

No. of brine sections in each chamber 1 - 3" main, delivery + returns to each turn deck space
1 - 3 1/2" do. do. do. do. hold

Can each section be readily shut off or disconnected yes Are the control valves situated in an easily accessible position yes

NOTE - THE WORDS WHICH DO NOT APPLY SHOULD BE DELETED.



