

REPORT ON MACHINERY

No. 6099.

Received at London Office APR. 4 1921

Date of writing Report 21st March 1921 When handed in at Local Office 19 Port of Copenhagen
 No. in Survey held at Copenhagen Date, First Survey 1st June 1920 Last Survey 24th Febr. 1921
 Reg. Book. 78935 on the Steel S.S. "Frederusbro" Yard No. 4 (Number of Visits 24)
 Master C. Alnsted Built at Copenhagen By whom built Baltica Værft, 9/8 When built 1920
 Engines made at Jönköping By whom made Jönköpings Mtk. Verkstads Aktiebolag when made 1920
 Boilers made at Jönköping By whom made Jönköpings Mtk. Verkstads Aktiebolag when made 1920
 Registered Horse Power 1350 Owners Det Københavnske Dampskibsselskab Port belonging to Copenhagen
 Shaft Horse Power at Full Power 1100 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.
220 NHP

URBINE ENGINES, &c.—Description of Engines See Gothenburg Rpt. No. 4684 No. of Turbines Two ^{1 H.P.} _{1 L.P.}

Diameter of Rotor Shaft Journals, H.P. - L.P. - Diameter of Pinion Shaft -
 Diameter of Journals - Distance between Centres of Bearings - Diameter of Pitch Circle -
 Diameter of Wheel Shaft - Distance between Centres of Bearings - Diameter of Pitch Circle of Wheel -
 Width of Face - Diameter of Thrust Shaft under Collars - Diameter of Tunnel Shaft - as per rule 9 13/16"
 as fitted 10 1/4"
 No. of Screw Shafts 1 Diameter of same as per rule 11 3/4" as fitted 12 1/2" Diameter of Propeller 15'-3" Pitch of Propeller 14'-10"
 No. of Blades 4 State whether Moveable No. Total Surface 78.76 sq' Diameter of Rotor Drum, H.P. - L.P. - Astern -
 Thickness at Bottom of Groove, H.P. - L.P. - Astern - Revs. per Minute at Full Power, Turbine 4000 Propeller 75

PARTICULARS OF BLADING.

	H.P.			L.P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION									
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and size of Feed pumps
 and size of Bilge pumps
 and size of Bilge suction in Engine Room 1 off 7", 1 off 4", 5 off 3"
 In Holds, &c. Forehold: 2 off 3"; afterhold: 2 off 3"; Tunnel well: 1 off 3"
 tanks: 1 off 3 1/2" A.P. tank; 1 off 3" In DB tanks 3 1/2" pipes (in No. 6 tank 4") arranged as shown on the approved plan.
 of Bilge Injections 1 sizes 7" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine Room & size yes, 4"
 all the bilge suction pipes fitted with roses yes. Are the roses in Engine room always accessible yes.
 all connections with the sea direct on the skin of the ship yes. Are they Valves or Cocks Valves, except the boiler blow off cock.
 they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line above.
 they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes.
 at pipes are carried through the bunkers None. How are they protected worked from engine casing top.
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes.
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes.
 the Screw Shaft Tunnel watertight yes. Is it fitted with a watertight door yes.

ILERS, &c.—(Letter for record -) Manufacturers of Steel -
 tal Heating Surface of Boilers - Is Forced Draft fitted yes. No. and Description of Boilers -
 rking Pressure 200 lbs./sq" Tested by hydraulic pressure to - Date of test - No. of Certificate -
 each boiler be worked separately yes. Area of fire grate in each boiler - No. and Description of Safety Valves to -
 boiler 2 off directly spring loaded Area of each valve 4.9 sq" Pressure to which they are adjusted 200 lbs. Are they fitted with easing gear yes.
 allest distance between boilers on uptakes and bunkers on woodwork 12" Mean dia. of boilers - Length - Material of shell plates -
 ickness - Range of tensile strength - Are the shell plates welded or flanged - Descrip. of riveting: cir. seams -
 i. seams - Diameter of rivet holes in long. seams - Pitch of rivets - Lap of plates or width of butt straps -
 centages of strength of longitudinal joint - Working pressure of shell by rules - Size of manhole in shell -
 of compensating ring - No. and Description of Furnaces in each Boiler - Material - Outside diameter -
 ight of plain part - Thickness of plates - Description of longitudinal - No. of strengthening rings -
 rking pressure of furnace by the rules - Combustion chamber plates: Material - Thickness: Sides - Back - Top - Bottom -
 ch of stays to ditto: Sides - Back - Top - If stays are fitted with nuts or riveted heads - Working pressure by rules -
 terial of stays - Diameter at smallest part - Area supported by each stay - Working pressure by rules - End plates in steam space -
 terial - Thickness - Pitch of stays - How are stays secured - Working pressure by rules - Material of stays -
 diameter at smallest part - Area supported by - Working pressure by rules - Material of Front plates at bottom -
 Thickness - Material of Lower back plate - Thickness - Greatest pitch of stays - Working pressure of plate by rules -
 diameter of tubes - Pitch of tubes - Material of tube plates - Thickness: Front - Back - Mean pitch of stays -
 pitch across wide water spaces - Working pressures by rules - Girders to Chamber tops: Material - Depth and -
 thickness of girder at centre - Length as per rule - Distance apart - Number and pitch of stays in each -
 Working pressure by rules - Steam dome: description of joint to shell - % of strength of joint - Diameter -
 Thickness of shell plates - Material - Description of longitudinal joint - Diameter of rivet holes - Pitch of rivets -
 Working pressure of shell by rules - Crown plates: Thickness - How stayed -

Continuation of Report No. 6099 dated 21st March 1921 on the

IS A DONKEY BOILER FITTED? *No.* If so, is a report now forwarded?
SPARE GEAR. State the articles supplied:— *See accompanying list.*

SPARE GEAR. State the articles supplied:— *See accompanying list.*

.....*Manufacturer.*

Is the approved plan of main boiler forwarded herewith No.

Recommend the vessel's machinery to have notation of $\frac{3}{4}$ L.M.C. - 2.21 "Fitted for oil fuel" subject to an independent driven feed pump being supplied and fitted complete and the feed check valves on the main boilers being examined within a period of 6 months from the date of survey. -

1000s and 1500s with some of surface 15,20, 200. and from of iron &c.

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