

REPORT ON MACHINERY.

No. 970

Received at London Office 26 MAR 1930

Date of writing Report 24th March 30 When handed in at Local Office 24th March 30 Port of Malmö
 No. in Survey held at Malmö Date, First Survey 7th Sept. 1929 Last Survey 5th March 1930
 Reg. Book. 15806 On the Steel Deck "BODEN" (Number of Visits 30)
 Gross 4251
 Tons Net 1985
 Master _____ Built at Sunderland By whom built J. L. Thompson & Sons, Ltd. When built 1914-5 mo.
 Engines made at Sunderland By whom made J. Siskinson & Sons, Ltd. when made 1914
 " " Malmö " " Hochmanns Mek. Verkstads Abt. " " 1930
 Boilers made at _____ By whom made _____ when made 1914
 Registered Horse Power _____ Owners Trafikaktie Gångarberg-Örebro ort belonging to Hochholm
 Shaft Horse Power at Full Power 675 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

TURBINE ENGINES, &c.—Description of Engines Exhaust Turbine System Runny-Wach No. of Turbines 1
 Diameter of Rotor Shaft Journals, H.P. _____ L.P. 140 mm Diameter of Pinion Shafts 110 and 315 - 260 mm
 Diameter of Journals 155 and 315 mm Distance between Centres of Bearings 540 and 720 mm Diameter of Pitch Circle 170.3 and 338.3 mm
 Diameter of Wheel Shaft 500 - 400 mm Distance between Centres of Bearings 960 mm Diameter of Pitch Circle of Wheels 1555.6 & 2209 mm
 Width of Face 220 & 440 mm Diameter of Thrust Shaft under Collars 352.5 mm Diameter of Tunnel Shaft _____ as per rule _____ as fitted _____
 No. of Screw Shafts _____ Diameter of same _____ as per rule _____ as fitted _____ Diameter of Propeller _____ Pitch of Propeller _____
 No. of Blades _____ State whether Moveable _____ Total Surface _____ Diameter of Rotor Drum, H.P. _____ L.P. 650 mm Astern _____
 Thickness at Bottom of Groove, H.P. _____ L.P. _____ Astern _____ Revs. per Minute at Full Power, Turbine 4000 Propeller 66

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.
1ST EXPANSION				57	764	1			
2ND				74	798	1			
3RD				91	832	1			
4TH				108	866	1			
5TH				124	898	1			
6TH				147	944	1			
7TH				170	990	1			
8TH									

No. and size of oil pressure pumps including spare pump 2 Vertical duplex 135 x 135 x 200 mm
 No. and size of Bilge pumps _____
 No. and size of Bilge suction in Engine Room _____
 In Holds, &c. _____

No. of Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine Room & size _____
 Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____
 Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Discharge Pipes above or below the deep water line _____
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 What pipes are carried through the bunkers _____ How are they protected _____
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 Is the Screw Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.—(Letter for record _____) Manufacturers of Steel

Total Heating Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of Safety Valves to each boiler _____ Are they fitted with easing gear _____
 Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 Per centages of strength of longitudinal joint _____ rivets _____ Working pressure of shell by rules _____ plates _____ Size of manhole in shell _____
 Size of compensating ring _____ No. and Description of Furnaces in each Boiler _____ Material _____ Outside diameter _____
 Length of plain part _____ top _____ crown _____ Thickness of plates _____ Description of longitudinal joint _____ bottom _____ No. of strengthening rings _____
 Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 Material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space _____
 Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 Diameter at smallest part _____ Area supported by each stay _____ 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 _____

