

REPORT ON MACHINERY

No. 40769
WED. 10 JAN. 1921

Received at London Office

Date of writing Report 18.1.21 When handed in at Local Office 18.1.21 Port of Glasgow

No. in Survey held at Clydebank Date, First Survey 1.12.1919 Last Survey 13.1.1921
Reg. Book. on the Steel Screw Steamer "EDAM" (Number of Visits 14)

Master Built at Glasgow By whom built Koninklijke Maatschappij De Schelde (175) When built
Engines made at Clydebank By whom made John Brown & Co. (50 9/16) when made 1920

Boilers made at Glasgow By whom made "Koninklijke Maatschappij De Schelde" when made ✓
Registered Horse Power Owners Port belonging to ✓

Shaft Horse Power at Full Power 4200 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

URBINE ENGINES, &c.—Description of Engines Brown Curtis DR. Geared Turbines No. of Turbines 3 ✓

Diameter of Rotor Shaft Journals, H.P. 3 1/2" L.P. 8" Diameter of Pinion Shaft H.P. 5 1/2" L.P. 7" Red 15" ✓
Diameter of Journals 5 3/4" 4 1/2" Distance between Centres of Bearings LP 3' 3/4" Diameter of Pitch Circle H.P. 12' 8" L.P. 13' 7 1/2" ✓
Diameter of Wheel Shaft 20" 1 1/8" Distance between Centres of Bearings 8' 8 1/2" Diameter of Pitch Circle of Wheel 23' 6 1/8" ✓
Width of Face 50" Diameter of Thrust Shaft under Collars 17 1/4" Diameter of Tunnel Shaft as per rule 16 1/2" ✓
No. of Screw Shafts 1 with Continuous Line as per rule 17 3/4" Diameter of Propeller Pitch of Propeller ✓
No. of Blades State whether Moveable Total Surface 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 LP 2880 Propeller 72 ✓

ARTICULARS 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									
2ND									
3RD									
4TH									
5TH									
6TH									
7TH									
8TH									

No. and size of Feed pumps
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 Size of manhole in shell plates
Size of compensating ring No. and Description of Furnaces in each Boiler Material Outside diameter
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings bottom
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

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SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

SPARE GEAR. State the articles supplied:— See appended list.

John Brown & Company, Limited.
 The foregoing is a correct description,
J. Henderson Manufacturers,
 Clydebank Secretary.

Dates of Survey while building: During progress of work in shops --- 1919: Dec 1-29 (1920) Jan 28 Feb 16, 27 May 6, 13, 17 July 5 Aug 27 Nov 1 Dec 20, 28 (1921) Jan 13.
 During erection on board vessel ---
 Total No. of visits: 14

Is the approved plan of main boiler forwarded herewith?
 " " " donkey " " "
 Dates of Examination of principal parts—Casings 27/2/20, 16/2/20 Rotors 5/7/20 Blading 5/7/20 Gearing 1/11/20
 Rotor shaft 5/7/20 Thrust shaft 27/8/20 Tunnel shafts 20/12/20, 27/8/20 Screw shaft 27/8/20 Propeller
 Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts
 Completion of pumping arrangements Boilers sized Engines tried under steam in shops 28/12/20
 Main boiler safety valves adjusted Thickness of adjusting washers

Material and tensile strength of Rotor shaft Summit Steel 35 tons Identification Mark on Do. am 44 29/12/20
 Material and tensile strength of Pinion shaft Nickel steel 40 1/2 tons Identification Mark on Do. HP 676 IR 903 L 710 30
 Material of Wheel shaft Steel Identification Mark on Do. 3242 27/8/20 Material of Thrust shaft Steel Identification Mark on Do. 2912/20 27/8/20
 Material of Tunnel shafts Steel Identification Marks on Do. 144, 1447, 1448 Material of Screw shafts Steel Identification Marks on Do. 179, 1346
 Material of Steam Pipes _____ Test pressure _____

Is an installation fitted for burning oil fuel? Is the flash-point of the oil to be used over 150°F?

Have the requirements of Section 49 of the Rules been complied with?

Is this machinery a duplicate of a previous case? yes If so, state name of vessel 93/19 94/19

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey the materials and workmanship are of good description, they have now been forwarded to Glasgow, where it is to be fitted on board the vessel.

The amount of Entry Fee ... £ 3 : :
 Special ... £ 27 : 10 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 19
 When received, 15.3.19

A.M. Keand
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW. 18 JAN 1921

FRI. 24 FEB. 1922

Assigned Deferred

See Minute on Rot 12057



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Certificate (if required) to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

MC.
 18.1.21