

REPORT ON MACHINERY.

No. 39880.

WED APR 28 1920

Received at London Office

Date of writing Report

When handed in at Local Office

23.4.20 Port of Glasgow

No. in Survey held at

Clydebank

Date, First Survey

7.8.1917

Last Survey

7.4.1920

Reg. Book.

on the

S.S. EKATI

(Number of Visits)

Tons

Gross 6741

Net 4090

Master

Built at

Clydebank

By whom built

John Brown & Co. Ltd. (1890)

When built 1920

Engines made at

Clydebank

By whom made

John Brown & Co. Ltd. (1890)

when made 1920

Boilers made at

Clydebank

By whom made

John Brown & Co. Ltd. (1890)

when made 1920

Registered Horse Power

Owners

Glen Dempster & Co.

Port belonging to Liverpool

Shaft Horse Power at Full Power 3055

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

URBINE ENGINES, &c.

Description of Engines

Brown Curtis double reduction

No. of Turbines 3

Diameter of Rotor Shaft Journals, H.P. 3" L.P. 7"

Diameter of Pinion Shaft H.P. 7" L.P. 4" H.P. 7" L.P. 2" Red 11"

Diameter of Journals

H.P. 7" L.P. 4"

Distance between Centres of Bearings

H.P. 2" L.P. 2"

Diameter of Wheel Shaft

H.P. 7" L.P. 4"

Distance between Centres of Bearings

H.P. 2" L.P. 2"

Width of Face

H.P. 7" L.P. 4"

Diameter of Thrust Shaft under Collars

H.P. 7" L.P. 4"

No. of Screw Shafts

H.P. 7" L.P. 4"

Diameter of same

H.P. 7" L.P. 4"

No. of Blades

H.P. 7" L.P. 4"

State whether Moveable

H.P. 7" L.P. 4"

Thickness at Bottom of Groove, H.P.

H.P. 7" L.P. 4"

L.P.

H.P. 7" L.P. 4"

Revs. per Minute at Full Power, Turbine

H.P. 7" L.P. 4"

L.P.

H.P. 7" L.P. 4"

Diameter of Rotor Drum, H.P.

H.P. 7" L.P. 4"

L.P.

H.P. 7" L.P. 4"

Pitch of Propeller

H.P. 7" L.P. 4"

L.P.

H.P. 7" L.P. 4"

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

No. and size of Feed pumps Two Weirs 8" x 10 1/2" x 21"

No. and size of Bilge pumps Two, 8" x 9" x 18"

No. and size of Bilge suction in Engine Room one 3 1/2" port, one 3 1/2" st. one 3 1/2" on tank top at centre, in stokehold

one port 3 1/2" one st. 3 1/2" In Holds, &c. two in each hold 3 1/2" one in tunnel

Well 3 1/2"

No. of Bilge Injections 1 sizes 12" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine Room & size yes 3 1/2"

Are all the bilge suction pipes fitted with roses yes

Are the roses in Engine room always accessible yes

Are all connections with the sea direct on the skin of the ship yes

Are they Valves or Cocks both

Are 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

Are 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

What pipes are carried through the bunkers four bilge suction

How are they protected under floors

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

Is the Screw Shaft Tunnel watertight yes

Is it fitted with a watertight door yes

worked from top platform

BOILERS, &c.—(Letter for record (3) Manufacturers of Steel

Total Heating Surface of Boilers 8172.75 Is Forced Draft fitted yes

Working Pressure 205 Tested by hydraulic pressure to 330

Can each boiler be worked separately yes

each boiler 1 pair duct spring

Smallest distance between boilers or uptakes and bunkers or woodwork about 12"

Thickness 1 1/2 Range of tensile strength 28 to 32

long seams table butt Diameter of rivet holes in long seams 1 1/2

rivets 88.76 Working pressure of shell by rules 210

Per centages of strength of longitudinal joint plates 88.6

Size of compensating ring 37 x 34 x 1 1/2 No. and Description of Furnaces in each Boiler 3 Monitors

Length of plain part top bottom Thickness of plates crown 2 1/2 bottom 3 1/2

Working pressure of furnace by the rules 215 Combustion chamber plates: Material steel Thickness: Sides 2 1/2 Back 3 1/2 Top 2 1/2 Bottom 7 1/2

Pitch of stays to ditto: Sides 5 1/2 x 5 1/2 Back 8 x 8 Top 8 x 8 1/2 If stays are fitted with nuts or riveted heads nuts

Material of stays steel Diameter at smallest part 1.87 Area supported by each stay 81.5 Working pressure by rules 210 End plates in steam space

Material steel Thickness 1 1/2 Pitch of stays 18 x 15 How are stays secured 2 nuts Working pressure by rules 207 Material of stays steel

Area at smallest part 5.40 Area supported by each stay 270 Working pressure by rules 209 Material of Front plates at bottom steel

Thickness 1 1/2 Material of Lower back plate steel Thickness 7 1/2 Greatest pitch of stays 13 1/2 Working pressure of plate by rules 210

Diameter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates steel Thickness: Front 1 1/2 Back 1 1/2 Mean pitch of stays 9 3/8

Pitch across wide water spaces 13 3/4 with 7 1/2 Working pressures by rules 34.5 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 9 3/8 x 3 3/4 double Length as per rule 32 1/2 Distance apart 8 3/4 Number and pitch of stays in each (3) 8"

Working pressure by rules 213 Steam dome: description of joint to shell none

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

