

REPORT ON MACHINERY.

No. 18030

Received at London Office

WED. 18 OCT. 1922

of writing Report 28 March 1922 When handed in at Local Office 28 March 1922 Port of Greenock

Survey held at South Glasgow Date, First Survey 10 March Last Survey 27 March 1922

on the Twin Screw Motor Ship Durenda (Number of Visits 2) Gross 7241. Net 4450.

Built at South Glasgow By whom built A. Duncan & Co. When built 1922

Engines made at Glasgow By whom made R. British Diesel Works when made 1922

Boilers made at By whom made when made

Registered Horse Power Owners British India & Co. Ltd Port belonging to London

Net Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes

GINES, &c.—Description of Engines No. of Cylinders No. of Cranks Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft Is the after end of the liner made water tight the propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

as per rule as fitted Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps Engine Room In Holds, &c.

of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible 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 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 How are they protected at pipes are carried through the bunkers

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

ERS, &c.—(Letter for record) Manufacturers of Steel al 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 each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

404 least 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 seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps percentages of strength of longitudinal joint rivets 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

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 Working pressure by rules h of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Area 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 a 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

meter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays h 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

meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes h of Rivets Working pressure of shell by rules Crown plates Thickness How stayed SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1922 March 10-27.
During erection on board vessel - - -
Total No. of visits 2.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Propeller

Stern tube

Steam pipes tested

Engine and boiler seatings 27/3/22

Engines holding down bolts

Completion of pumping arrangements

Boilers fixed

Engines tried under steam

Completion of fitting sea connections

27/3/22

Stern tube 10/3/22

Screw shaft and propeller 27/3/22

Main boiler safety valves adjusted

Thickness of adjusting washers

Material of Crank shaft

Identification Mark on Do.

Material of Thrust shaft

Identification Mark on Do.

Material of Tunnel shafts

Identification Marks on Do.

Material of Screw shafts

Identification Marks on Do.

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 duplicate of a previous case

If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

This vessel proceeds to Glasgow where the machinery will be fitted.

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

| | | | |
|--------------------------------|---|---|-------------------|
| The amount of Entry Fee ... £ | : | : | When applied for, |
| Special ... £ | : | : | 19 |
| Donkey Boiler Fee ... £ | : | : | When received, |
| Travelling Expenses (if any) £ | : | : | 19 |

Committee's Minute

GLASGOW

17 OCT 1922

Assigned See G.B. Rpt. No. 42215

James James

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation