

REPORT ON MACHINERY.

No. 385 1/4
WED. 12 MAR. 1919

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of Glasgow
 Date, First Survey 1st Oct. 1918 Last Survey 28 July 1919
 (Number of Visits 2 1/2)
 on the Standard Vessel "War Finch" Tons { Gross 3080
 Net 1857
 Built at Glasgow By whom built Finch & Co (No 364) When built
 By whom made do Rowan & Co (No 712) when made 1919
 By whom made Babcock & Wilcox (No) when made
 Port belonging to
 Owners
 Horse Power as per Section 28
 Is Refrigerating Machinery fitted for cargo purposes
 Is Electric Light fitted

ENES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 of Cylinders 25-41-68 Length of Stroke 45 Revs. per minute
 Dia. of Screw shaft as per rule 13.4 Material of screw shaft Iron
 as fitted 14 1/2
 screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight
 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
 on the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two
 are fitted, is the shaft lapped or protected between the liners Length of stern bush 5-0
 of Tunnel shaft as per rule 12.4 Dia. of Crank shaft journals as per rule 13.02 Dia. of Crank pin 13 1/4 Size of Crank webs 24 1/8 3/4 Dia. of thrust shaft under
 as fitted 12 1/2 as fitted 13 1/2 as fitted 13 1/2
 Dia. of screw 16-0 Pitch of Screw 16-3 No. of Blades 4 State whether moveable no Total surface 75 ft
 Feed pumps none on main engine Stroke Can one be overhauled while the other is at work
 Diameter of ditto
 Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 24 Can one be overhauled while the other is at work
 Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room In Holds, &c.

Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
 Are the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 connections with the sea direct on the skin of the ship Are they Valves or Cocks
 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
 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
 pipes are carried through the bunkers How are they protected
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller
 Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from
See separately in Rpt.

ERS, &c.—(Letter for record) Manufacturers of Steel
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
 Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 Mean dia. of boilers Length Material of shell plates
 Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Working pressure of shell by rules Size of manhole in shell
No. and Description of Furnaces in each boiler Material Outside diameter
 Thickness of plates crown bottom Description of longitudinal joint No. of strengthening rings
 Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 If stays are fitted with nuts or riveted heads Working pressure by rules
 Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 Working pressures by rules Girders to Chamber tops: Material Depth and
 Length as per rule Distance apart Number and pitch of stays in each
 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Distance between rings Working pressure by rules End plates: Thickness How stayed
 Area of safety valves to superheater Are they fitted with easing gear



VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____ When made _____ Where fixed _____
 Made at _____ By whom made _____
 Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of _____
 Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____
 If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____
 Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Rivets _____ Plates _____
 Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____
 Working pressure of shell by rules _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays to do. _____ Dia. of stays _____
 Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____
 Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Radius of do. _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

David Rowan & Co. Ltd. Manufacturer.

Dates of Survey while building: During progress of work in shops --- 1918 Oct. 8, 23, Nov. 8, 13, 23, 25, 28, Dec. 3, 4, 6, 11, 24 (1919) Jan. 10, 13, 16, 22, 27, Feb. 11, 12, 28.
 During erection on board vessel --- 21.
 Total No. of visits _____
 Is the approved plan of main boiler forwarded herewith _____
 " " " donkey " " " _____

Dates of Examination of principal parts—Cylinders 4.12.18 Slides 27.1.19 Covers 4.10.18 Pistons 4.10.18 Rods 4.12.18
 Connecting rods 27.1.19 Crank shaft 3.12.18 Thrust shaft 24.12.18 Tunnel shafts 25.11.18 Screw shaft 13.1.19 Propeller 13.1.19
 Stern tube 16.1.19 Steam pipes tested _____ Engine and boiler seatings _____ Engines holding down bolts _____
 Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____
 Main boiler safety valves adjusted _____ Thickness of adjusting washers _____
 Material of Crank shaft *Steel* Identification Mark on Do. *712* Material of Thrust shaft *Steel* Identification Mark on Do. *224*
 Material of Tunnel shafts *Iron* Identification Marks on Do. *224, 6* Material of Screw shafts *Iron* Identification Marks on Do. *224*
 Material of Steam Pipes _____ Test pressure _____

General Remarks (State quality of workmanship, opinions as to class, &c.) *The Engines have been built under Special Survey, the materials and workmanship are good. The Engines have been forwarded to Messrs. & Trenchard & Co. Chepstow*

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 .. £ 34 : 9 : _____
 Donkey Boiler Fee .. £ : : When received, _____
 Travelling Expenses (if any) £ : : *24/8* .. 19 *19*

Committee's Minute **GLASGOW 11 MAR 1919**
 Assigned **TRANSMIT TO LONDON**
W.M. **TUE 30 DEC. 1919**
W. Easthope
 Engineer Surveyor to Lloyd's Register of British & Foreign Ships

