

25 SEP 1929

Rpt. 4.

REPORT ON MACHINERY.

No. 82812

Received at London Office 6 MAR 1920

Date of writing Report 5th March 1920 When handed in at Local Office 6 MAR 1920 Port of Ipswich

No. in Survey held at Colchester Date, First Survey 16th July 1918 Last Survey 23rd Feb 1920.

Reg. Book Machinery No 13751 for S.S. "Yewcroft" (Number of Visits 31) Tons Gross 826.60
Net 409.43

Master Scott & Sons Built at Bowling By whom built Scott & Sons When built 1929.

Engines made at Colchester By whom made Davey Paxman & Co Ltd No 13751 when made 1920.

Boilers made at Glasgow. By whom made David Rowan & Co. Ltd. No. 360 when made 1929.

Registered Horse Power John Stewart & Co. Owners John Stewart & Co. Port belonging to Glasgow.

Nom. Horse Power as per Section 28 120. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 15.25.40" Length of Stroke 27" Revs. per minute 7.97 Dia. of Screw shaft 8.875" Material of screw shaft Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liner Is the after end of the liner made water tight in the propeller boss Yes

If the liner is in more than one length are the joints burned Yes 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 Runs in oil

If two liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 3'-4"

Dia. of INT 7.45" as per rule 7.5" Dia. of Crank shaft journals 7.82" as per rule 7.875" Dia. of Crank pin 7 7/8" Size of Crank webs 5x12 1/2" Dia. of thrust shaft under collars 8" Dia. of screw 10.0" Pitch of Screw 9.9" No. of Blades 4 State whether moveable No Total surface 34 sq ft

No. of Feed pumps 2 Diameter of ditto 2 1/2" Stroke 14" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 2 1/2" Stroke 14" Can one be overhauled while the other is at work Yes

No. of Donkey Engines In Engine Room Sizes of Pumps In Holds, &c. No. and size of Suctions connected to both Bilge and Donkey pumps

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 the sluices on Engine room bulkheads 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 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

g. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Percentage of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell Material Outside diameter

Length of plain part Thickness of plates Description of longitudinal joint 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 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

Area 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 Diam. of rivet holes

Pitch 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

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:-

The foregoing is a correct description, for and on behalf of DAVEY, PAXMAN & CO Limited.

Handwritten signature of J. A. Sanders

Manufacturer.

Dates of Survey while building: During progress of work in shops, During erection on board vessel, Total No. of visits 31.

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, Funnel shafts, Screw shaft, Propeller.

Completion of pumping arrangements, Completion of fitting sea connections, Main boiler safety valves adjusted, Material of Crank shaft, Material of Thrust shaft, Material of Funnel shafts, Material of Screw shafts, Material of Steam Pipes, Test pressure.

Material of Crank shaft Steel Identification Mark on Do. Material of Thrust shaft Steel Identification Mark on Do. Material of Funnel shafts Steel Identification Marks on Do. Material of Screw shafts Steel 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. These Engines have been built under Special Survey, and in accordance with the Specification and the Society's Rules. The materials & workmanship are sound & good.

The amount of Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses (if any). Committee's Minute. Assigned.

Robert Rae, Engineer Surveyor to Lloyd's Register of Shipping.



Rpt. 5a. Date of writing. No. in Sur. Reg. Book. Master. Engines made. Boiler made. REGISTERED Nominal Horse. MULTITU. Manufacturer. Total Heating. No. and Desc. Tested by hyd. Area of Fire. Area of each. In case of don. Smallest dista. Smallest dista. Largest intern. Thickness. long. seams. Percentage of. Percentage of. Thickness of. Material. Length of pla. Dimensions of. End plates in. How are stays. Tube plates. Mean pitch of. Girders to co. at centre. in each. Tensile streng. Pitch of stays. Working press. Thickness. Pitch of stays. Working Press. Diameter. Working press. Diameter.

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