

Rpt. 4.

## REPORT ON MACHINERY.

25 SEP 1929

No. 82812

Received at London Office 6 MAR 1920

Date of writing Report 5<sup>th</sup> March 1920 When handed in at Local Office 6 MAR 1920 Port of IpswichNo. in Survey held at Colchester Date, First Survey 16th July 1918 Last Survey 23<sup>rd</sup> Feb 1920.  
Reg. Book on the Machinery No 13751 for S.S. "Yewcroft" (Number of Visits 3)Master Built at Bowling By whom built Scott & Sons Tons Gross 826.60 Net 409.43  
When built 1929.

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

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

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

Nom. Horse Power as per Section 28 720. 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 Dia. of Screw shaft as per rule 7.97" Material of steel  
as fitted 8.875" screw shaft  
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 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  
Dia. of INT Tunnel shaft as per rule 7.45" Dia. of Crank shaft journals as per rule 7.82" Dia. of Crank pin 7.78" Size of Crank webs 5x12.5" Dia. of thrust shaft under  
as fitted 7.5" as fitted 7.875"  
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 2.5" Stroke 14" Can one be overhauled while the other is at work Yes  
No. of Bilge pumps 2 Diameter of ditto 2.5" Stroke 14" Can one be overhauled while the other is at work Yes  
No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps  
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 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  
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, &amp;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  
In each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to  
Each boiler Area of each valve Pressure to which they are adjusted 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  
Percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
No. 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 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  
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

003816-003823-0208



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.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918: July 16 Oct 10-15 Nov 1-21 Dec 9 (1918) Jan 6-16 Feb 6-17 25 Mar 21 Apr 12 10-18 May 2-6 18-30 July 14-30 Aug 8-19 25 Sep 5-18 Nov 3-17 (1918) Feb 23  
During erection on board vessel -- 31  
Total No. of visits 31

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 21-11-18 9-12-18 6-1-19 Slides 6-2-19 17-2-19 2-5-19 Covers 21-11-18 4-12-18 16-1-19 7-2-19 Pistons 6-2-19 17-2-19 Rods 16-1-19 17-2-19  
Connecting rods 16-1-19 17-2-19 Crank shaft 21-11-18 6-1-19 2-5-19 10-5-19 Thrust shaft 21-3-19 26-5-19 INT Tunnel shafts 21-11-18 4-12-18 16-1-19 7-2-19 2-5-19 10-5-19 26-5-19 Screw shaft 21-11-18 4-12-18 16-1-19 7-2-19 2-5-19 10-5-19 26-5-19 Propeller 16-1-19 17-2-19 2-5-19 10-5-19 26-5-19

Stern tube 30-7-19 Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark on Do. Material of Thrust shaft Steel Identification Mark on Do.

Material of INT Tunnel 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 ... £ : : When applied for, ...  
Special ... £ : :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) ... £ : :  
The fee in this case was covered by the Settlement made with the Ministry of Shipping & was included in the unallocated balance of the payment recd 16/4/20

Committee's Minute

Assigned

Not for blessing Committee

Robert Rae.

Engineer Surveyor to Lloyd's Register of Shipping.



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