

# REPORT ON MACHINERY

No. 82813.

Received at London Office 6 MAR 1920

Date of writing Report 5 March 1920 when handed in at Local Office 6 MAR 1920 Port of Spawick Date, First Survey 15 Oct. 1918 Last Survey 23 Feb 1920

No. in Survey held at 1 Reg. No. 13752 SS YEW PARK Tons { Gross 827 Net LL 10 When built 1930

Master Pauling Built at Rowling By whom built Scott & Sons Engines made at Colechester By whom made Davey Paxman & Co. Ltd N° 13752 when made 1920

Boilers made at Glasgow By whom made David Rowan & Co. Ltd when made 1929 Registered Horse Power 120 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 24" Revs. per minute as per rule 7.97 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 ✓ 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 Shell run in oil two liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 3.4"

Diagrams of Engines INT. Dia. of Funnel shaft as per rule 7.45 Dia. of Crank shaft journals as per rule 7.82 Dia. of Crank pin 7 3/8 Size of Crank webs 5 x 12 1/2 Dia. of thrust shaft under collars 8" Dia. of screw 10 1/2" 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 2 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 they Valves or Cocks

Are all connections with the sea direct on the skin of the ship 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 How are they protected

What pipes are carried through the bunkers 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, &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 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

long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates for width of butt straps Per centages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell Material Outside diameter No. and Description of Furnaces in each boiler Material Outside diameter

Size of compensating ring Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings Material Outside diameter Working pressure by rules

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 End plates in steam space

Material of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom Working pressure of plate by rules

Thickness Material of Lower back plate Thickness Greatest pitch of stays 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 % of strength of joint

Working pressure by rules Steam dome: description of joint to shell 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 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Is Easing Gear fitted Date of Test Pressure to which each is adjusted

Diameter of Safety Valve Tested by Hydraulic Pressure to

004055-004061-0341

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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, MAXMAN & CO Limited.

*J. Andrew*

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1918 Oct 15 Nov 1.21 Dec 9 (1919) Jan 6 Feb 6 17 25 Mar 21 Apr 2 10 28 May 26 Jun 2 6 15 30 July 14 30 Aug 8 15 25 Sep 5 18 Nov 3 17 Dec 15 (1920)  
During erection on board vessel ---  
Total No. of visits 28.

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders 30-6-19 26-5-19 2-6-19 Slides 6-2-19 17-2-19 2-5-19 Covers 21-11-18 16-1-19 17-2-19 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 16-1-19 2-5-19 Thrust shaft 21-3-19 26-5-19 INT Tunnel shafts 21-3-19 26-5-19 Screw shaft 9-12-18 26-5-19 17-11-19 Propeller 3-11-19 17-11-19

Stern tube 30-7-19 Steam pipes tested 21-1-30 7 coil pipes 21-1-30 6 coil pipes Engine and boiler seatings 12-12-29 Engines holding down bolts 20-1-30

Completion of pumping arrangements Boilers fixed 17-1-30 Engines tried under steam

Completion of fitting sea connections 12-12-29 Stern tube 12-12-29 Screw shaft and propeller 12-12-29

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 6 copper Test pressure 310

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 and good

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 ... £ 30 : 0 : 0  
Special ... £ : :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, included in Settlement from h/s  
When received, 16/4/19 20.

*Robert Rae*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW

18 FEB 1930

Assigned See Glasgow Report no. 50141



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