

Rpt. 4.

REPORT ON MACHINERY.

No. 427752
WED. NOV. 27 1922
TUE 27 MAR. 1923

Date of writing Report 21st Oct. 1922 When handed in at Local Office 21st Oct. 1922 Port of Glasgow
 Received at London Office
 No. in Survey held at alloa Date, First Survey 4th Oct. 1922 Last Survey 4th Oct. 1922
 Reg. Book. 66561 on the Steel Screw Steamer "MANOERAN" (Number of Visits 1)
 Master ✓ Built at alloa By whom built Messrs. The North & S. Coy. Ltd. No. 60 Tons }
 Engines made at Newcastle By whom made Messrs. Sir W. G. Armstrong, Whitworth & Co. When built }
 Boilers made at ✓ By whom made ✓ when made ✓
 Registered Horse Power 863 Owners Stoomvaart Maatschappij Nederland Port belonging to Amsterdam
 Nom. Horse Power as per Section 28 863 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines

Description of Engines		No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft as per rule / as fitted
Is the screw shaft fitted with a continuous liner the whole length of the stern tube		Material of screw shaft	
Is the after end of the liner made water tight		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 liners are fitted, is the shaft lapped or protected between the liners	
Dia. of Tunnel shaft 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 collars	Dia. of screw	Pitch of Screw	No. of Blades
State whether moveable		Total surface	
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
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 fitted with easing gear
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	

OILERS, &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 or width of butt straps
Per centages of strength of longitudinal joint	Working pressure of shell by rules	Size of manhole in shell	
Size of compensating ring	No. and Description of Furnaces in each boiler	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
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	

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 Oct 4
 { During erection on board vessel - - - }
 Total No. of visits 1

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

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 Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections 4-10-22 Stern tube 4-10-22 Screw shaft and propeller *not fitted before launch*

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.)

Now Done: Examined fitting & fastenings of sea cocks & stern tube. After launching, this vessel will be towed to Newcastle to have the machinery - including the tail shaft & propeller - 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

J. D. Boyle
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

31 OCT 1922

WFD. 4 APR. 1923

Assigned

Deferred.

[Signature]



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