

REPORT ON MACHINERY.

No. 4105.

Date of writing Report 30th July 1921 When handed in at Local Office 31st July 1921 Port of Dublin
No. in Survey held at Dublin Date, First Survey 3rd May 1921 Last Survey 29th July 1921
Reg. Book 5091 on the steel screw steamer "CRAIGAVON" (Number of Visits)
Master _____ Built at Dublin By whom built Dublin Shipbuilders, Ltd. Tons { Gross 692 Net 286
Engines made at Glasgow By whom made Ross & Duncan, Ltd. When built 1921
Boilers made at Glasgow By whom made Ross & Duncan, Ltd. when made 1921
Registered Horse Power _____ Owners Hugh Craig & Co. Port belonging to Belfast
Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

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	Material of screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube			Is the after end of the liner made water tight	
In the 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	
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			Length of stern bush	
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
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 Enging room bulkheads always accessible	
Are all connections with the sea direct on the skin of the ship		<u>yes.</u>	Are they Valves or Cocks <u>both.</u>	
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 <u>above.</u>		
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel		<u>yes.</u>	Are the Blow Off Cocks fitted with a spigot and brass covering plate <u>yes.</u>	
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 <u>none machy aft.</u> Is it fitted with a watertight door <u>✓</u> worked from <u>✓</u>				

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 rivets. plate 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 top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

bottom Thickness of plates 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

7600-149M

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 - -
During erection on board vessel - - -
Total No. of visits FOR THIS SURVEY 7

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	Tunnel shafts	Screw shaft
Stern tube	Steam pipes tested	Engine and boiler seatings	Engines holding down bolts	Propeller
Completion of pumping arrangements	Boilers fixed	Engines tried under steam		
Completion of fitting sea connections	12. 5. 21	Stern tube	30. 5. 21	Screw shaft and propeller
Main boiler safety valves adjusted		Thickenss of adjusting washers		30. 5. 21
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

no

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.)

The sea cocks and valves, stern tube, tail shaft and propeller, and the thrust shaft satisfactorily fitted.
The vessel has left for Glasgow, in tow, where the machinery is to be installed, and the Glasgow Surveyors have been advised.

The amount of Entry Fee	£	:	:	When applied for.
Special	£	:	:	19.
Donkey Boiler Fee	£	:	:	When received.
Travelling Expenses (if any)	£	:	:	19.

Committee's Minute

Assigned See G. R. R. N° 41345.

A. B. Forster

H. J. Pyle

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation