

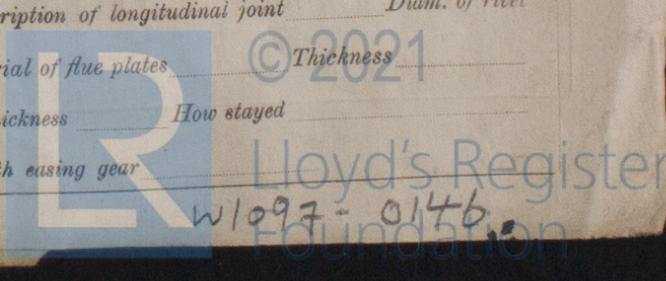
REPORT ON MACHINERY.

No. 2940

Port of Melvor
 Received at London Office 1920
 No. in Survey held at Melvor Haven Date, first Survey 16 April Last Survey 12 Oct 15 1920
 Book 47 on the SM Trawler "James Capell" (Number of Visits 15)
 Built at Greenock By whom built Geo Brown & Co L Tons Gross 281
Glasgow By whom made Gauldie Gillespie & Co When built 1918
Glasgow By whom made A. W. Dalglish when made 1918
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Horse Power as per Section 28 87 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 of Cylinders 12 1/2" x 21" x 35" Length of Stroke 26 Revs. per minute 110 Dia. of Screw shaft 7 5/8 Material of screw shaft Iron
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight
 Is the propeller boss yes If the liner is in more than one length are the joints burned no 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 no If two
 are fitted, is the shaft lapped or protected between the liners no Length of stern bush 34"
 Dia. of Tunnel shaft 6 5/8 as per rule 6 5/8 Dia. of Crank shaft journals 6 9/8 as per rule 6 9/8 Dia. of Crank pin 7 3/8 Size of Crank webs 13 3/8 x 4 1/2" Dia. of thrust shaft under
 cranks 7 3/8 Dia. of screw 9 1/4 Pitch of Screw 11 1/2" No. of Blades 4 State whether moceable no Total surface 35.5 sq ft
 of Feed pumps 2 Diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work yes
 of Bilge pumps 2 Diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work yes
 of Donkey Engines Two Sizes of Pumps 6" x 3 x 6, 6" x 4 x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 12" Joints 1.2" apt, 9 12" Separate legs In Holds, &c. from Hold, and stow wells
also separate 2" ejectors from all parts
 of Bilge Injections 1 size 3 1/2" Connected to condenser, or to circulating pump no Is a separate Donkey Suction fitted in Engine room of size yes 2 1/2"
 all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible no
 all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both
 they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line above
 they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes
 all pipes are carried through the bunkers Forward Suction How are they protected Wood casing
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 of examination of completion of fitting of Sea Connections yes of Stern Tube yes Screw shaft and Propeller yes
 Is the Screw Shaft Tunnel watertight no Is it fitted with a watertight door yes worked from yes

BOILERS, &c.—(Letter for record S) Manufacturers of Steel _____
 Heating Surface of Boilers _____ Is Forced Draft fitted no No. and Description of Boilers Single ended
 Working Pressure 180 Tested by hydraulic pressure to 360 lb Date of test 8-11-17 No. of Certificate 1
 Can each boiler be worked separately no Area of fire grate in each boiler 50 sq ft No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 4.9 Pressure to which they are adjusted 180 Are they fitted with easing gear yes
 Least distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 162 Length 10 1/2' Material of shell plates S
 Thickness 1 3/32" Range of tensile strength 28.32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 seams T.R.D.B.S Diameter of rivet holes in long. seams 1 5/32" Pitch of rivets 8" Lap of plates or width of butt straps double
 Percentages of strength of longitudinal joint 89.3 Working pressure of shell by rules 180 Size of manhole in shell 16" x 12"
 of compensating ring 9 1/32" No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 40 9/16"
 Thickness of plain part 8 1/2" Thickness of plates 25 Description of longitudinal joint Welded No. of strengthening rings 1
 Working pressure of furnace by the rules 188 Combustion chamber plates: Material S Thickness: Sides 1 1/16" Back 2 1/32" Top 1 1/16" Bottom 7/8"
 of stays to ditto: Sides 9 x 9 Back 8 x 9 Top 10 x 8 1/4" If stays are fitted with nuts or riveted heads no Working pressure by rules 181
 Material of stays S Diameter at smallest part 2.07 Area supported by each stay 90 sq in Working pressure by rules 206 End plates in steam space:
 Material S Thickness 1 1/16" Pitch of stays _____ How are stays secured DNW Working pressure by rules 181 Material of stays S
 Diameter at smallest part 2 1/16" Area supported by each stay 29 sq in Working pressure by rules 215 Material of Front plates at bottom S
 Thickness 3/32" Material of Lower back plate S Thickness 15/16" Greatest pitch of stays 14' x 9" Working pressure of plate by rules 219
 Diameter of tubes 3 1/2" Pitch of tubes 5 x 4 3/4" Material of tube plates S Thickness: Front 3/16" Back 7/8" Mean pitch of stays 10"
 across wide water spaces 14" Working pressures by rules 184 Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 8 1/2" x 1 3/4" Length as per rule 32 Distance apart 9 1/2" Number and pitch of stays in each 29 1/2"
 Working pressure by rules yes Superheater or Steam chest; how connected to boiler yes Can the superheater be shut off and the boiler worked
 separately _____ Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet
 Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____
 stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____
 Working pressure of end plates _____ Area of safety valves to superheater _____ Are they fitted with easing gear _____



VERTICAL DONKEY BOILER— Manufacturers of Steel ✓

No.	Description				
Made at	By whom made	When made	Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with easing gear	If steam from main boilers can enter the donkey boiler		Dia. of donkey boiler	Length	
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— 2 top end bolts, 9 nuts 2 bottom end bolts and
 2 main bearing nuts & bolts 4 coupling bolts and nuts 1 complete set of
 valves for feed, and bilge pumps 5 escape valve springs, air pump valves
 4 boiler tubes, and tube stoppers 3 Condenser tubes, and bolt-shut-asses

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

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 24-9-20

Main boiler safety valves adjusted 24-9-20 Thickness of adjusting washers P 3/8" S 3/8"

Material of Crank shaft Iron Identification Mark on Do. Material of Thrust shaft Iron Identification Mark on Do. ✓

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. ✓

Material of Steam Pipes S D. Copper Test pressure ✓

General Remarks (State quality of workmanship, opinions as to class, &c. The workmanship of the machinery of this vessel appears good having been built under British Corporation Survey to plans, and specification mutually approved by this Society and B.C., and in my opinion merits LMC 10. 20 Assigned

Certificate (if required) to be sent to

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

JW Johnstone
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI. NOV. 19 1920

Assigned

L 10 20



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 Foundation

CERTIFICATE WRITTEN