

Date of writing Report Mar 26 1923 When handed in at Local Office April 4 1923 Port of Belfast
 No. in Survey held at Belfast Date, First Survey 1920 Feb 23 Last Survey Mar 27 1923
 Reg. Book. on the Steel S.S. "Inveravon" (Number of Visits 76) Gross 6906.53
 Master Belfast Built at Belfast By whom built Harland & Wolff Ltd (591) Tons Net 2651.49
 Engines made at Belfast By whom made Harland & Wolff Ltd No. 591 when made 1923
 Boilers made at Belfast By whom made Harland & Wolff Ltd when made 1923
 Registered Horse Power 534 Owners British Mexican Petroleum Co. Ltd. Andrew Weir & Co. Port belonging to London
 Nom. Horse Power as per Section 28 534 540. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Single Screw Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 24" x 44" x 42" Length of Stroke 48" Revs. per minute 12 Dia. of Screw shaft 14.8" Material of Steel
 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
 in the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes If two
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5'-6"
 Dia. of Tunnel shaft 12.22" as per rule 12.22" Dia. of Crank shaft journals 12.99" as per rule 12.99" Dia. of Crank pin 14.34" Size of Crank webs 28 x 9 Dia. of thrust shaft under
 collars 15" as fitted 13.78" Dia. of screw 18'-0" Pitch of Screw 16'-6" No. of Blades 4 State whether moveable Yes Total surface 102
 No. of Feed pumps 2 Diameter of ditto 4 1/2" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4 1/2" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines See following Sizes of Pumps 11 @ 3 1/2" & 1 @ 3" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 @ 4", 6 @ 3 1/2", 5 @ 2 1/2", In Holds, &c. 11 @ 3 1/2" & 1 @ 3"

No. of Bilge Injections 1 sizes 12" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size Yes 4"
 Are 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 Yes
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both
 Are 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 Both
 Are 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
 What pipes are carried through the bunkers Main Cargo Line How are they protected Yes
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel D. Colville & Sons Ltd
 Total Heating Surface of Boilers 10224 Is Forced Draft fitted No No. and Description of Boilers 4 Single ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 1-12-22 No. of Certificate 818
 Can each boiler be worked separately Yes Area of fire grate in each boiler oil fuel No. and Description of Safety Valves to
 each boiler 2 spring loaded Area of each valve 11.04 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 24" Mean dia. of boilers 15'-6" Length 11'-6" Material of shell plates Steel
 Thickness 1 1/4" Range of tensile strength 98 to 102 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DR. lap
 long. seams T.R.D.S. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9.125 Lap of plates or width of butt straps 19 1/2"
 Per centages of strength of longitudinal joint 88.1 Working pressure of shell by rules 182 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring Me Keils No. and Description of Furnaces in each boiler 3 Daington Material Steel Outside diameter 4'-2 3/16"
 Length of plain part 8" Thickness of plates 1 1/4" Description of longitudinal joint Weld No. of strengthening rings None
 Working pressure of furnace by the rules 188 Combustion chamber plates: Material Steel Thickness: Sides 3/32" Back 3/32" Top 3/32" Bottom 3/32"
 Pitch of stays to ditto: Sides 10 5/8 x 9 1/4" Back 8 1/2 x 8 1/2" Top 10 5/8 x 8 1/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 lbs
 Material of stays Steel Area at smallest part 1.4642 Area supported by each stay 86 Working pressure by rules 186 End plates in steam space:
 Material Steel Thickness 1 1/32" Pitch of stays 2 1/4 x 2 1/4" How are stays secured Single nuts secured Working pressure by rules 181 lbs Material of stays Steel
 Area at smallest part 8.27 Area supported by each stay 4 1/2 Working pressure by rules 181 Material of Front plates at bottom Steel
 Thickness 3/32" Material of Lower back plate Steel Thickness 3/32" Greatest pitch of stays 13 1/8 x 8 1/2" Working pressure of plate by rules 191 lbs
 Diameter of tubes 2 1/4" Pitch of tubes 4" x 3 1/8" Material of tube plates Steel Thickness: Front 3/32" Back 3/4" Mean pitch of stays 8 x 4 1/4"
 Pitch across wide water spaces 13 5/8 Working pressures by rules 193 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 2 @ 9 1/4 x 7 1/8" Length as per rule 2'-9" Distance apart 10 5/8" Number and pitch of stays in each 3 @ 8 1/6"
 Working pressure by rules 181 lbs Steam dome: description of joint to shell none % of strength of joint Yes
 Diameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes
 Pitch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

SUPERHEATER. Type None Date of Approval of Plan Yes Tested by Hydraulic Pressure to Yes
 Date of Test Yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve Yes Pressure to which each is adjusted Yes Is Easing Gear fitted Yes

See followr.

For HARLAND & WOLFF Ltd.

Manufacturer.

Is the approved plan of main boiler forwarded herewith Yes

" " " *donkey* " " ✓

Completion of fitting sea connections 18-9-88 Stern tube 18-9-88 Screw shaft and propeller 18-9-88
 Port AFT stand aft Cent aft 3rd 13th

Material of Crank shaft Steel Identification Mark on Do. 7-10-1 Material of Thrust shaft Steel Identification Mark on Do. 200
5514 5280 6214
 Material of Piston Steel Identification Marks on Do. 5214 240 Material of Screw shafts Steel Identification Marks on Do. 5214

Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes

Is this machinery duplicate of a previous case? Yes If so, state name of vessel 2 Navy Jaws

The Machinery of this vessel has been built under special survey and in accordance with the approved plans. Materials & workmanship good. Hydraulic

is satisfactory. In view of the fact that the engine is a fine one & is in good & safe condition, it is recommended that the engine be purchased for \$1,000.00.

✠ MC 3-23. Tail shaft C.L., fitted for oil fuel 3-23

THE RECORD. + LMC 3.23. CL.

Donkey Boiler Fee ... £ ✓ : : When received.

Committee's Minute

Listed for oil fuel 3.23

Continuation of Report No. 8896 dated 26. 3. 23 on the

List of Pumps.

1	Waste Feed Pump (main)	✓	$10\frac{1}{2}" \times 8" \times 21"$
1	" " " (Aux)	✓	$8" \times 6" \times 15"$
1	Main Circulating Pump	✓	$36" \text{ Impeller} \times 13" \text{ disc}$
1	General Service	✓	$4" \times 5" \times 8"$
1	Ballast	✓	$12\frac{1}{2}" \times 12" \times 12"$
1	Air Pump (main Eng)	✓	$24" \times 24"$
2	Fuel oil pumps	✓	$6" \times 4" \times 9"$
2	Cargo oil pumps	✓	$16" \times 14" \times 16"$

g Bolts & nuts for top & bottom ends & main
Bearings.

1 Set Snubling lott ✓

1 Set feed & Dilge Pump valves. ✓

Quantity of assorted bolts nuts & iron

1 Propeller shaft & 1 blade.

1 Pair Bottom end braces

1 kg. Fish value

12 tubes & 50 ferrules for Andersen
P.K. 800

Piston & Slide Rod packing run
in B.H. + 1

[illegible]

Seed pump escape - valve & spr
18 K. C. + oil

I set up a trap line
I have a good one to go in

Spare year for an - purpose etc

William Butler

It is submitted that
this vessel is eligible for
THE RECORD. + LMC3.23. CL

Fitted for oil fuel 3.23. FP. above 150°F .

The amount of Entry Fee	...	£	6	:	0	:	0	When applied for,
Special	...	£	101	:	11	:	0	30 Mar 1923
Donkey Boiler Fee	...	£	✓	:	:	:	:	When received,
Travelling Expenses (if any)	£	✓	:	:	:	:	:	1923

Committee's Minute

Assigned

+ Lmb 3.23 CL

Listed for oil fuel 3.23
 F.P. above 15-0°F.

C.L.
23
CERTIFICATE NUMBER