

# REPORT ON MACHINERY.

No. 31913

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of writing Report 27/5/1920 When handed in at Local Office 27/5/1920 Port of Hull  
 in Survey held at Hull Date, First Survey 5-11-19 Last Survey 29-5-1920  
 Book on the S.T. MAI (Number of Visits) Tons } Gross 336  
 Net 170  
 Built at Beverley By whom built Robt Weston & Gemmell When built 1920  
 Lines made at Hull By whom made Wm & Holmes Wood. No 1203 when made  
 Makers made at Hull By whom made Wm & Holmes Wood. No 1201 when made 1920  
 Registered Horse Power Owners The Fishing Co. Ltd. Port belonging to  
 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes.

GINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3  
 of Cylinders 13" 23" 37" Length of Stroke 26" Revs. per minute 112 Dia. of Screw shaft 7 1/4" as per rule 7 1/4" Material of screw shaft Steel  
 as fitted 8 1/4"  
 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  
 the propeller boss Not fitted If the liner is in more than one length are the joints burned Not fitted 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  
 are fitted, is the shaft lapped or protected between the liners Bedwells Patent Length of stern bush 40"  
 of Tunnel shaft as per rule 7 1/4" Dia. of Crank shaft journals as per rule 7 1/4" Dia. of Crank pin 7 1/4" Size of Crank webs 5 1/4" Dia. of thrust shaft under  
 as fitted 7 1/4"  
 of Feed pumps Two Diameter of ditto 3" Stroke 14 1/2" Can one be overhauled while the other is at work —  
 of Bilge pumps Two Diameter of ditto 3" Stroke 14 1/2" Can one be overhauled while the other is at work —  
 of Donkey Engines Two Sizes of Pumps 5" x 2 1/2" x 5" FLYWHEEL No. and size of Suctions connected to both Bilge and Donkey pumps  
 Engine Room Two 2' DIA In Holds, &c. ONE 2" DIA EACH COMPARTMENT.

of Bilge Injections ONE sizes 3 1/2" Connected to condenser, or to circulating pump PUMP Is a separate Donkey Suction fitted in Engine room & size 3 ELECTOR  
 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 NONE  
 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  
 pipes are carried through the bunkers FOR SUCTIONS & WINCH STEAM. How are they protected STRONG 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  
 Screw Shaft Tunnel watertight NONE Is it fitted with a watertight door — worked from —

ERS, &c.—(Letter for record S) Manufacturers of Steel SPENCER & SONS.  
 Heating Surface of Boilers 1557 sq ft Is Forced Draft fitted No No. and Description of Boilers ONE CYL MULTR.  
 Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 12/4/20 No. of Certificate 3425  
 each boiler be worked separately Area of fire grate in each boiler 48 sq ft No. and Description of Safety Valves to  
 boiler 2 SPRING LOADED Area of each valve 4.9" Pressure to which they are adjusted 205 lbs Are they fitted with easing gear Yes  
 least distance between boilers or uptakes and bunkers or woodwork 1 1/2" LAGGED. Mean dia. of boilers 13-6" Length 10-8" Material of shell plates STEEL  
 Range of tensile strength 28 to 32 TONS Are the shell plates welded or flanged NO Descrip. of riveting: cir. seams DOUBLE LAP  
 seams TR. JOBS. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 8 1/4" Lap of plates or width of butt straps 1 1/2"  
 advantages of strength of longitudinal joint rivets 88 sp Working pressure of shell by rules 200 lbs Size of manhole in shell 16 x 12"  
 plate 84 sp  
 of compensating ring 7 x 1 1/2" No. and Description of Furnaces in each boiler THREE PLAIN. Material Steel. Outside diameter 40"  
 of plain part top 6-9" Thickness of plates crown 3 1/4" Description of longitudinal joint WELDED. No. of strengthening rings ONE.  
 bottom 6-3" bottom 3 1/4"  
 Working pressure of furnace by the rules 214 lbs Combustion chamber plates: Material Steel. Thickness: Sides 3/4" Back 3/4" Top 1/2" Bottom 3/4"

Person of stays to ditto: Sides 9 1/2" x 9" Back 9" x 8 1/2" Top 9 1/2" x 7" If stays are fitted with nuts or riveted heads NUTS Working pressure by rules 220 lbs  
 Material of stays Steel. Area at smallest part 2.07 Area supported by each stay 85.5" Working pressure by rules 218 lbs End plates in steam space:  
 Material Steel Thickness 1 1/4" Pitch of stays 17 1/2" x 17" How are stays secured TR. JOBS. Working pressure by rules 240 lbs Material of stays Steel  
 at smallest part 7.5" Area supported by each stay 297" Working pressure by rules 260 lbs Material of Front plates at bottom Steel  
 Material of Lower back plate Steel. Thickness 1" Greatest pitch of stays 18 1/2" x 9" Working pressure of plate by rules 255 lbs  
 Pitch of tubes 3 1/2" Pitch of tubes 5" x 1 1/2" Material of tube plates Steel Thickness: Front 1" Back 5/8" Mean pitch of stays 9 1/2"  
 across wide water spaces 13 1/2" Working pressures by rules 203 lbs Girders to Chamber tops: Material Steel Depth and  
 of girder at centre 10" x 1 1/2" Length as per rule 2-9 1/2" Distance apart 9 1/2" Number and pitch of stays in each 3 27"  
 Working pressure by rules 215 lbs Steam dome: description of joint to shell % of strength of joint —

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
 rivets Working pressure of shell by rules Crown plates Thickness How stayed  
 REHEATER. Type SCHMIDT'S Date of Approval of Plan 1/4/20 Tested by Hydraulic Pressure to 600 lbs  
 Test 20/5/20 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes  
 of Safety Valve 2" Pressure to which each is adjusted 215 lbs Is Easing Gear fitted Yes



