

Rpt. 4.

REPORT ON MACHINERY.

14 SEP 1928

No. 48258

Received at London Office

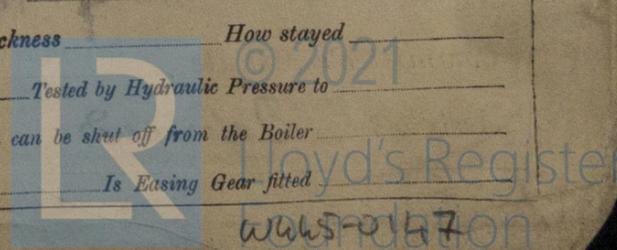
3 AUG 1928

Date of writing Report 12 Sept 28 When handed in at Local Office L. 8. 10 28 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 19. 3. 28 Last Survey 3-8-1928
 Reg. Book. on the S.S. "USKMOUTH" (Number of Visits 334 Sept 7 1928)
 Master Built at Buntisland By whom built Buntisland SBC (S/N-148) When built 1928
 Engines made at Glasgow By whom made David Rowan & Co Ltd (N° 885) when made 1928
 Boilers made at Glasgow By whom made David Rowan & Co Ltd (N° 885) when made 1928
 Registered Horse Power _____ Owners Uskide Steamship Co Ltd Port belonging to Newport
 Nom. Horse Power as per Section 28 259 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
 Dia. of Cylinders 22-36-60 Length of Stroke 39" Revs. per minute _____ Dia. of Screw shaft as per rule 12.03 Material of screw shaft steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes (NO O.S.) 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 _____ 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 _____ Length of stern bush 4' 1 1/2"
 Dia. of Tunnel shaft as per rule 10.76 Dia. of Crank shaft journals as per rule 11.298 Dia. of Crank pin 1 1/2" Size of Crank webs 18" x 7 1/2" Dia. of thrust shaft under
 collars 11 3/4" Dia. of screw 15-3" Pitch of Screw 16-6" No. of Blades 4 State whether moveable no Total surface 73.6 sq ft
 No. of Feed pumps 2 Diameter of ditto 3 1/4" Stroke 21" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 21" Can one be overhauled while the other is at work yes
 No. of Donkey Engines 3 Sizes of Pumps 8" x 10" x 8. 8" x 5" x 8. 8" x 5" x 8 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 3-2 1/2", 1-4" special, 1-2 1/2" tunnel In Holds, &c. N°1:-2-2 1/2", N°2:-2-3", N°3:-3-3"
 No. of Bilge Injections 1 sizes 4 1/2" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes - 4"
 Are all the bilge suction pipes fitted with roses yes Are the Mud Boxes in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible
 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 above
 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 _____ How are they protected _____
 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 deck (top platform)
BOILERS, &c.—(Letter for record (S)) Manufacturers of Steel Witkowski Bergbau und Eisenhitten-Bewerkschaft in Witkowski

Total Heating Surface of Boilers 4200 sq ft Is Forced Draft fitted no No. and Description of Boilers two, single ended
 Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 26-6-28 No. of Certificate 17944
 Can each boiler be worked separately yes Area of fire grate in each boiler 57.75 sq ft No. and Description of Safety Valves to
 each boiler two, direct spring Area of each valve 7.06 sq in Pressure to which they are adjusted 180 lb/sq in Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 14" Mean dia. of boilers 14-9" Length 10-6" Material of shell plates steel
 Thickness 1 1/2" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR. lap
 long. seams DBSTR Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 21/32" Lap of plates or width of butt straps 18 3/4"
 Per centages of strength of longitudinal joint 88.5 Working pressure of shell by rules 180 Size of manhole in shell 19 1/2" x 15 1/2"
 Section 9" x 1 1/2" No. and Description of Furnaces in each boiler 3 Brighton Material steel Outside diameter 43 3/32"
 Size of compensating ring _____ Thickness of plates 35" Description of longitudinal joint welded No. of strengthening rings none
 Length of plain part top _____ Thickness of plates bottom 36" Working pressure of furnace by the rules 184 Combustion chamber plates: Material steel Thickness: Sides 23/32" Back 21/32" Top 23/32" Bottom 23/32"
 Working pressure of furnace by the rules 184 Combustion chamber plates: Material steel Thickness: Sides 23/32" Back 21/32" Top 23/32" Bottom 23/32"
 Pitch of stays to ditto: Sides 10 3/8" x 9 1/2" Back 9 1/4" x 8 3/8" Top 10 3/8" x 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182
 Material of stays steel Area at smallest part 1.73 sq in Area supported by each stay 82.20 sq in Working pressure by rules 185 End plates in steam space:
 Material steel Thickness 1 1/4" Pitch of stays 20 1/2" x 19 1/4" How are stays secured WN Working pressure by rules 180 Material of stays steel
 Area at smallest part 5940 sq in Area supported by each stay 362 sq in Working pressure by rules 181 Material of Front plates at bottom steel
 Thickness 21/32" Material of Lower back plate steel Thickness 3/4" Greatest pitch of stays 13 1/8" x 8 3/8" Working pressure of plate by rules 181
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates steel Thickness: Front 21/32" Back 23/32" Mean pitch of stays 10"
 Pitch across wide water spaces 13 1/8" x 8 3/4" Working pressures by rules 183 Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 20 1/4" x 7 1/8" Length as per rule 32 3/4" Distance apart 9 1/2" Number and pitch of stays in each 2 @ 10 3/8"
 Working pressure by rules 181 Steam dome: description of joint to shell none % 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 none 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 _____

If not, state whether, and when, one will be sent? No. In a Report also sent on the Hull of the Ship?



IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:— 2 connecting rod top-end bolts + nuts, 2 connecting rod bottom end bolts + nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of fad + bilge pump valves, a quantity of assorted bolts + nuts.

The foregoing is a correct description,

For David Rowan & Co. Ltd }
Archd. N. Grierson } Manufacturer.

Dates of Survey while building { During progress of work in shops -- } 1928 Mar 19 Apr 10, 24, 27 May 2, 11, 18, 22, 24, 28, 29 Jun 4, 5, 14, 15, 19, 20, 21, 22, 25, 26, 27, 28, 29
{ During erection on board vessel -- } July 2, 4, 5, 6, 9, 10, 11, 26, 31 Aug 3
{ Total No. of visits } 35 (in shops) 8 (on board) Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 4-6-28 Slides 2-7-28 Covers 15-6-28 Pistons 20-6-28 Rods 10-7-28
Connecting rods 29-6-28 Crank shaft 19-6-28 Thrust shaft 6-7-28 Tunnel shafts 15-6-28 Screw shaft 9-7-28 Propeller 9-7-28
Stern tube 26-7-28 Steam pipes tested 27-8-28 Engine and boiler seatings 13-8-28 Engines holding down bolts 31-8-28

Completion of pumping arrangements 31-8-28 Boilers fixed 16-8-28 Engines tried under steam 7-9-28
Completion of fitting sea connections 5-7-28 Stern tube 16-7-28 Screw shaft and propeller 26-7-28

Main boiler safety valves adjusted 31-8-28 Thickness of adjusting washers Port Boiler 4" S.V. 5" Star 4" Donkey 13" A.V. 3/8"
Material of Crank shaft J. Steel Identification Mark on Do. LLOYD'S NO 885 19-8-28 L.C.D.
Material of Thrust shaft J. Steel Identification Mark on Do. LLOYD'S NO 516 6-7-28 L.C.D.
Material of Tunnel shafts J. Steel Identification Marks on Do. LLOYD'S NO 885 19-8-28 L.C.D.
Material of Screw shafts J. Steel Identification Marks on Do. LLOYD'S NO 13275 19-8-28 L.C.D.
Material of Steam Pipes Woot. Iron Test pressure 540 B/10"

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 yes If so, state name of vessel "Goleta"

General Remarks (State quality of workmanship, opinions as to class, &c.)
The materials and workmanship are good
The machinery has been constructed under special survey in accordance with the Rules. It is being sent to Burntisland to be fitted in the vessel.

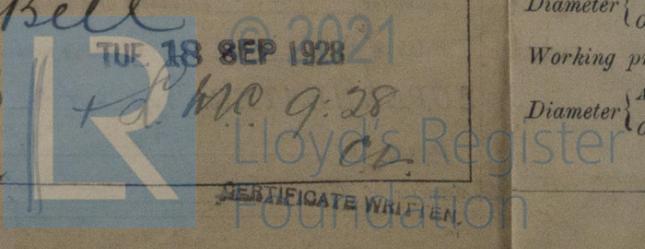
The machinery has now been satisfactorily fitted in the vessel, tried under steam & found satisfactory. The machinery is now in a good & safe working condition which renders the vessel eligible, in my opinion, to have the notation + L.M.C. - 9.28

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 9.28 CB. 12-9-28

The amount of Entry Fee ... £ 4 :
Special fee ... £ 51 :
1/2 fee - due 1st Apr ... £ 12 : 17
Donkey Boiler Fee ... £ 12 : 17
Travelling Expenses (if any) £ 0 : 18

Committee's Minute GLASGOW 7 - AUG 1928
Assigned Deferred

Signature: S. C. Davis
Engineer Surveyor to Lloyd's Register of Shipping.
Signature: Clive Bell



Certificate (if required) to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

Date of writing
No. in Reg. Book
Master
Engines made
Boilers made
Nominal Horsepower
MULTITUBULAR
Manufacturer
Total Heating Surface
No. and Description
Tested by hydrostatic
Area of Fire
Area of each
In case of donkey
Smallest diameter
Smallest diameter
Largest internal
Thickness
long seams
Percentage of
Percentage of
Thickness of
Material
Length of plates
Dimensions of
End plates
How are stays
Tube plates
Mean pitch
Girders to
at centre
in each
Tensile strength
Pitch of stay
Working pressure
Thickness
Pitch of stay
Working pressure
Diameter
Working pressure
Diameter