

REPORT ON MACHINERY.

No. 45243
30 JUN 1926

Received at London Office

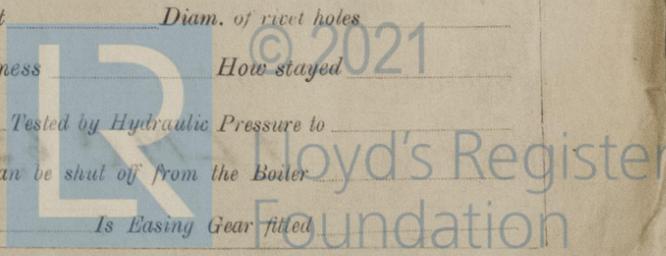
Date of writing Report 19 When handed in at Local Office 28.6.1926 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 22nd Feb 1925 Last Survey 23-6-1926
 Reg. Book. on the new steel S/S "VASCO" (Number of Visits 35)
 Master Built at Port Glasgow By whom built R. Duncan & Co (S/S N^o 373) Tons Gross 1191 Net 725
 Engines made at Glasgow By whom made D. Rowan & Co L^d. (N^o 838) when made 1926
 Boilers made at Glasgow By whom made D. Rowan & Co L^d. (N^o 838) when made 1926
 Registered Horse Power Owners M. M. de Pinillos Port belonging to Cadix
 Nom. Horse Power as per Section 28 137 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 16" 27" 44" Length of Stroke 30" Revs. per minute 106 Dia. of Screw shaft as per rule 8.98" Material of steel as fitted 9.5" screw shaft
 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
 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
 in the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two
 are fitted, is the shaft lapped or protected between the liners - Length of stern bush 3'2"
 Dia. of Tunnel shaft as per rule 7.98" Dia. of Crank shaft journals as per rule 8.38" Dia. of Crank pin 8.3" Size of Crank webs 12x5.5" Dia. of thrust shaft under
 as fitted 8.8" as fitted 8.98" Dia. of screw 12'0" Pitch of Screw 12'6" No. of Blades 4 State whether movable no Total surface 470 ft
 of Feed pumps 2 Diameter of ditto 2.5" Stroke 15" Can one be overhauled while the other is at work yes
 of Bilge pumps 2 Diameter of ditto 3" Stroke 15" Can one be overhauled while the other is at work yes
 of Donkey Engines Three Sizes of Pumps 8x8x8, 6x4x7, 4x3x5 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 3@2.5" In Holds, &c. Fore hold - 2@2.5" After hold 1@2.5"
 Tunnel well - 1@2.5"

of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump b.p. Is a separate Donkey Suction fitted in Engine room & size yes, 3.5"
 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 -
 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 below
 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 Grk
 at pipes are carried through the bunkers Forward hold suction How are they protected under 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
 the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Bridge deck

BOILERS, &c.—(Letter for record (S)) Manufacturers of Steel Gulehoffnungshutte a. g. of Oberhausen, Germany, 2SB.
 Total Heating Surface of Boilers 24120 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 4-5-26 No. of Certificate 17119
 can each boiler be worked separately yes Area of fire grate in each boiler 31.6 sq ft No. and Description of Safety Valves to
 boiler two direct spring Area of each valve 3.970" Pressure to which they are adjusted 185 Are they fitted with easing gear yes
 smallest distance between boilers or uptakes and bunkers or woodwork 15" Mean dia. of boilers 11'6" Length 10'0" Material of shell plates steel
 thickness 3/32" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams OR
 1. seams DBS. TR Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7 3/16" Lap of plates or width of butt straps 16"
 percentages of strength of longitudinal joint rivets 97.2 Working pressure of shell by rules 182 Size of manhole in shell 19 1/2" x 15 1/2"
 of compensating ring 2-8x2-4x3/32" No. and Description of Furnaces in each boiler two Dighton Material steel Outside diameter 3'3"
 length of plain part top - Thickness of plates bottom 3/2" Description of longitudinal joint welded No. of strengthening rings none
 working pressure of furnace by the rules 184 Combustion chamber plates: Material steel Thickness: Sides 39/64 Back 31/32 Top 39/64 Bottom 39/64
 pitch of stays to ditto: Sides 8 5/8 x 8 5/8 Back 9 1/2 x 8 3/4 Top 8 5/8 x 8 5/8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180
 material of stays steel Area at smallest part 1.350" Area supported by each stay 700" Working pressure by rules 180 End plates in steam space:
 material steel Thickness 3/32" Pitch of stays 16 3/8 x 15 1/8 How are stays secured D.N. Working pressure by rules 181 Material of stays steel
 area at smallest part 3.970" Area supported by each stay 2320" Working pressure by rules 185 Material of Front plates at bottom steel
 thickness 27/32" Material of Lower back plate steel Thickness 3/4" Greatest pitch of stays 13 1/8 x 8 3/4 Working pressure of plate by rules 182
 diameter of tubes 3 1/4" Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates steel Thickness: Front 27/32" Back 23/32" Mean pitch of stays 10"
 pitch across wide water spaces 13 7/8 x 8 3/4 Working pressures by rules 183 Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 2@ 5 7/8 x 7/8 Length as per rule 24 1/4 Distance apart 8 5/8 Number and pitch of stays in each 2@ 8 1/8
 working pressure by rules 181 Steam dome: description of joint to shell none % of strength of joint

PERHEATER. 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



IS A DONKEY BOILER FITTED? *yes*

If so, is a report now forwarded? *yes*

SPARE GEAR. State the articles supplied:— *In accordance with the Rules and in addition, one HP piston valve and one propeller.*

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 -- } *1926 Feb. 22-23 Mar. 2-8-16-22-24-25-29 Apr. 8-9-16-19-20-21-24-30 May 3-4-5-10-14-20-25-31 June*
{ During erection on board vessel --- } *4-7-8-11-14-16-17-23*
Total No. of visits *35*

Is the approved plan of main boiler forwarded herewith *yes*

" " " donkey " " " *yes*

Dates of Examination of principal parts—Cylinders *20-5-26* Slides *20-5-26* Covers *20-5-26* Pistons *20-5-26* Rods *20-5-26*

Connecting rods *21-4-26* Crank shaft *25-3-26* Thrust shaft *25-3-26* Tunnel shafts *25-3-26* Screw shaft *30-4-26* Propeller *30-4-*

Stern tube *3-5-26* Steam pipes tested *4-6-26* Engine and boiler seatings *2-6-26* Engines holding down bolts *11-6-26*

Completion of pumping arrangements *14-6-26* Boilers fixed *11-6-26* Engines tried under steam *23-6-26*

Completion of fitting sea connections *G.R.K.* Stern tube *G.R.K.* Screw shaft and propeller *G.R.K.*

Main boiler safety valves adjusted *17-6-26* Thickness of adjusting washers *Port bolts - both 3/8" str. bls - P 3/8" 55"*

Material of Crank shaft *Steel* Identification Mark on Do. *LLOYD'S NO 1530 L.C.D. 25-3-26* Material of Thrust shaft *Steel* Identification Mark on Do. *LLOYD'S NO 124 L.C.D. 25-3-26*

Material of Tunnel shafts *Steel* Identification Marks on Do. *LLOYD'S NO 6509-108 81523 L.C.D. 25-3-26* Material of Screw shafts *Steel* Identification Marks on Do. *LLOYD'S NO 651 H.L.S. 30-4*

Material of Steam Pipes *Lapwelded steel* Test pressure *540 lb per sq. in.*

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 *"Ibero"*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The workmanship and materials are good. The machinery has been constructed under special survey in accordance with the Rules, satisfactorily fitted in the vessel, tried under steam and found good. It is eligible in my opinion for classification and the Record + LMC 6.26

It is submitted that this vessel is eligible for THE RECORD. + LMC 6.26. CL

J.W.D. 5/7/26

The amount of Entry Fee ... £ *3* : : When applied for, *29 JUN 1926*
Special ... £ *34:5* : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : : When received, *6.7.26*

J.C. Davis
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 29 JUN 1926**

Assigned **+ LMC 6.26**



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J.C. 28-6-26

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.

CERTIFICATE WRITTEN 20/6/26