

REPORT ON MACHINERY.

No. 12231 ⁶

Port 28 March 1922 When handed in at Local Office 19 Port of Rotterdam received at London Office THU 28 MARCH 1922
 held at Rotterdam Date, First Survey 1 March 1921 Last Survey 30 March 1922
Club Twin Screw Steamer "SCALA SHELL" "Spudonia" (Number of Visits 26) Tons } Gross 3584.5
 } Net 3160.57
 Built at Dumbarton By whom built A. de Billan - Le Cle When built 1902
Dundee By whom made Cornwall & Craig Ltd when made 1920-22
Barrow in Furness By whom made Nickers Ltd Plate No: 560 when made 1920
 se Power Owners Anglo-Saxon Petroleum Co Port belonging to London
 ver as per Section 28 322 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

&c.—Description of Engines See Dundee Pp. 18302 No. of Cylinders _____ No. of Cranks _____
 Length of Stroke _____ Revs. per minute 115 Dia. of Screw shaft as per rule 8.62 Material of screw shaft _____
 Is the after end of the liner made water tight _____
 If the liner is in more than one length are the joints burned _____ If the liner does not fit tightly at the part _____
 the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive _____ If two _____
 is the shaft lapped or protected between the liners _____ Length of stern bush _____

as per rule _____ Dia. of Crank shaft journals _____ as per rule _____ Dia. of Crank pin _____ Size of Crank webs _____ Dia. of thrust shaft under _____
 as fitted _____ as fitted _____
 Dia. of screw _____ Pitch of Screw _____ No. of Blades _____ State whether moceable _____ Total surface _____
 Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 Engines 0 Sizes of Pumps 7 x 9 1/2 x 21 No. and size of Suctions connected to both Bilge and Donkey pumps _____
3 x 2 1/2 6 x 10 x 10 7 1/2 x 7 1/2 x 10 In Holds, &c. Forward 1 x 3 1/2

suctions 2 sizes 7" Connected to condensers or to circulating pump _____ Is a separate Donkey Suction fitted in Engine room & size 4 1/2 x 3 1/2
 suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
 ons with the sea direct on the skin of the ship _____ Are they Valves or Cocks Both _____
 ficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Discharge Pipes above or below the deep water line below
 ed with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 carried through the bunkers oil fuel How are they protected _____

ocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 uction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 aft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____
 &c.—(Letter for record S) Manufacturers of Steel See Barrow in Furness Pp. 1830

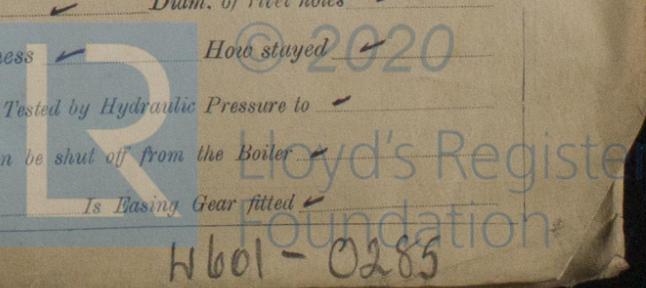
Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 sure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 be worked separately _____ Area of fire grate in each boiler _____ No. and Description of Safety Valves to _____
Spring loaded Area of each valve 9 7/8" Pressure to which they are adjusted 100 lbs Are they fitted with easing gear _____
 between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____

Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____
 Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____

Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____
 Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____

Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and _____
 Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 Steam dome: description of joint to shell _____ % of strength of joint _____
 Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

ATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Pressure to which each is adjusted _____ Is Easing Gear fitted _____



IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top end bolts and nuts, two bottom end bolts and nuts, two main bearing bolts, 1 set of coupling bolts, spare valves for air feed and bilge pump valves, various bolts, nuts, rim of various sizes, 1 section of crankshaft, 1 propeller shaft, 1 piston rod, air pump bucket + rod, 2 feed air bilge pump, 1 guide shoe, 1 eccentric strap, 2 propellers, 2 bottom end support beams 36 inch diameter.

ROTTERDAMSCH-PROGNOZ-MAATSCHAPPIJ

DIRECTEUR

[Signature]

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building	During progress of work in shops --	1/3 - 1/4 - 2/4 - 2/4 - 2/5 - 1/7 - 1/7 - 1/8 - 2/8 - 2/9 - 7/9 - 14/9 - 26/9 - 10/10 - 12/10 - 25-26/10 - 19/11
	During erection on board vessel --	1/2 - 1/2 - 2/2 - 7/3 - 14/3 - 15/3 - 20/3 - 22
	Total No. of visits	26

Is the approved plan of main boiler forwarded here?

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Dates of Examination of principal parts—Cylinders Slides Covers Pistons

Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft 23-4-27 Prop

Stern tube Steam pipes tested 25.10-21. Engine and boiler seatings 23.4-21 Engines holding down bolts

Completion of pumping arrangements 22.2-22. Boilers fixed 27.5-21 Engines tried under steam 4-3

Completion of fitting sea connections 14.8-21. Stern tube 26.9-21. Screw shaft and propeller 26

Main boiler safety valves adjusted 16-3-22. Thickness of adjusting washers SB. 3/8 - 5/16. Ports 13/32

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

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

Material of Steam Pipes *Steel thin copper pipes* Test pressure 540 lbs - 350 lbs *Spare 901*

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

Have the requirements of Section 49 of the Rules been complied with *Yes*

Is this machinery duplicate of a previous case *no* If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery is*

*fitted in accordance with the approved plans, Plans and Secretary's letters. The engines have worked satisfactorily during a trial and may in my opinion be recorded in the Society's Register Book with **3.22** fitted for burning oil fuel. Flashpoint above*

Certificate (if required) to be sent to Surveyor Rotterdam

The amount of Entry Fee ...	£	:	When applied for,
<i>15</i> Special ...	£	100.00	19
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) ...	£	20.00	20/4/22

[Signature]
Engineer Surveyor to Lloyd's Register

Committee's Minute *FRI 28 APR. 1922*
Assigned

MACHINERY CERT
WRITTEN
21/4/22

*+ Lmb 3.22
+ 2/3 + 1/3 3.22
Filed for oil fuel 3.22
as above 10.7.*

