

## REPORT ON MACHINERY.

No. 13608.

Port of GreenockReceived at London Office 12 MAY 1903No. in Survey held at Greenock  
Reg. Book.Date, first Survey 20<sup>th</sup> Jan'y 1902 Last Survey 11<sup>th</sup> May 1903(Number of Visits 119)on the Screw Steamer NarragansettMaster Payne Built at Greenock By whom built Scott & Co.Tons } Gross  
Net  
When built 1903Engines made at Greenock By whom made Scott & Co. Greenock Foundry when made 1903Boilers made at Greenock By whom made Scott & Co. Greenock Foundry when made 1903Registered Horse Power Owners Anglo-American Oil Co. Ltd. Port belonging to GreenockNom. Horse Power as per Section 28 490 Is Refrigerating Machinery fitted no Is Electric Light fitted YesENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks ThreeDia. of Cylinders 31"-51"-85½" Length of Stroke 60" Revs. per minute 75 Dia. of Screw shaft as per rule 17½" Material of Iron  
as fitted 18½" screw shaftIs 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 tightin the propeller boss Yes If the liner is in more than one length are the joints burned to joint 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 twoliners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 6' 10"Dia. of Tunnel shaft as per rule 16' 6" Dia. of Crank shaft journals as per rule 14½" Dia. of Crank pin 17½" Size of Crank webs 25 x 12 Dia. of thrust shaft under  
collars 17½" Dia. of screw 20' 0" Pitch of screw 19' 0" No. of blades 4 State whether moveable Yes Total surface 120 sq. ft.No. of Feed pumps 2 Diameter of ditto 4½" Stroke 33" Can one be overhauled while the other is at work Yes 4 in. feed pumps  
No. of Bilge pumps 2 Diameter of ditto 4½" Stroke 33" Can one be overhauled while the other is at work Yes dia. 9" x 26" strokeNo. of Donkey Engines Two Sizes of Pumps 8½ x 10" & 6½ x 12" No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room Three: 3½ dia. In Hold: 3-3½ dia. In Holds, &c. Cross Bunkers: Two: 4 dia. Special  
pumps fitted to draw from Tunnel and peaks.No. of bilge injections 1 sizes 11" Connected to condenser, or to circulating pump C: P. Is a separate donkey suction fitted in Engine room & size Yes: 2½"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 YesAre all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves and CocksAre 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 AboveAre 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 YesWhat pipes are carried through the bunkers None How are they protected YesAre all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges YesWhen were stern tube, propeller, screw shaft, and all connections examined in dry dock New vessel Is the screw shaft tunnel watertight YesIs it fitted with a watertight door No worked from Tunnel entered from deck by TrunkwaysBOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 14016 Sq. ft. Is forced draft fitted noNo. and Description of Boilers 6: Cylindrical: Multi: Single ended Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs.Date of test 23/12/02 Can each boiler be worked separately Yes Area of fire grate in each boiler 64 sq. ft. No. and Description of safety valves toeach boiler 2: Direct Spring Area of each valve 7.06" Pressure to which they are adjusted 205 lbs. Are they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork About 22" Mean dia. of boilers 15' 4" Length 11' 0" Material of shell plates SteelThickness 1½" Range of tensile strength 28-32,600 Are they welded or flanged No Descrip. of riveting: cir. seams Lap Double long. seams Butt StrapDiameter of rivet holes in long. seams 1½" Pitch of rivets 9" 14 7/16" Lap of plates or width of butt straps 20"Per centages of strength of longitudinal joint 85-4 Working pressure of shell by rules 201 lbs. Size of manhole in shell 16 x 12"Size of compensating ring 38 x 32½ x 1½" No. and Description of Furnaces in each boiler 3: Morrison Material Steel Outside diameter 48½"Length of plain part 6' 10" Thickness of plates 5" Description of longitudinal joint Weld No. of strengthening rings NoneWorking pressure of furnace by the rules 208 lbs. Combustion chamber plates: Material Steel Thickness: Sides 5" Back 3 3/4" Top 5" Bottom 1 5/16"Pitch of stays to ditto: Sides 7½" Back 8 1/4" Top 7 1/2 x 8 1/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 202 lbs.Material of stays Steel Diameter at smallest part 1 5/16" Area supported by each stay 65" Working pressure by rules 210 lbs. End plates in steam space:Material Steel Thickness 1 5/16" Pitch of stays 17 1/2 x 17" How are stays secured Double nuts Working pressure by rules 201 lbs. Material of stays SteelDiameter at smallest part 2 1/16" Area supported by each stay 297" Working pressure by rules 209 lbs. Material of Front plates at bottom SteelThickness 8" Material of Lower back plate Steel Thickness 1 5/16" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 292 lbs.Diameter of tubes 3 1/4" Pitch of tubes 4 3/8 x 4 3/8" Material of tube plates Steel Thickness: Front 1 1/2" Back 3 1/2" Mean pitch of stays 8 1/2"Pitch across wide water spaces 14 1/2" Working pressures by rules 215 lbs. 224 lbs. Girders to Chamber tops: Material Steel Depth andthickness of girder at centre 10 1/2 x 1 1/2" Length as per rule 35 3/16" Distance apart 8 3/4" Number and pitch of Stays in each 4: 7 1/2"Working pressure by rules 213 lbs. Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler workedseparately Yes Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivetholes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates ThicknessIf stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed Working pressure of end platesArea of safety valves to superheater Are they fitted with easing gear

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SPARE GEAR. State the articles supplied:—  $\frac{1}{2}$  Crank shaft, 1 Intermediate shaft, 1 Propeller shaft, 2 Propeller blades bronze, 1 Set studs & nuts for 1 blade, 1 set packing Rings for H.P. & M.P. pistons, 1 Air pump rod, Dirc for Centrifugal pump, 1 Lp. Valve Guide with lead & quadrant block, 2 Eccentric straps 1 Pair Crank pin braces, 2 Pair Cross head braces,  $\frac{1}{2}$  set Piston Rings,  $\frac{1}{2}$  set Metallals for Air pump, 1 Safety valve spring, 1 set valve stones for Feed Pidge, & Main pumps, 25 Bolt tubes, 25 Condenser tubes,  $\frac{1}{2}$  set valves for Relief & cold water pumps, 1 set escape valve springs, and list of spare gear

The foregoing is a correct description, for Scott & Co. Manufacturer, required by the Society's Rules.

Scott & Co.

Is the approved plan of main boiler forwarded herewith	Yes.
" " " donkey " " "	Yes

The engines and Boilers of this vessel have been built under Special Survey and the materials and workmanship are good. When completed they were examined while on a trial in the Firth of Clyde and found to work satisfactorily.

It is submitted that  
this vessel is eligible for  
THE RECORD  $\otimes$  LMC 5:03 Elec. Light.

14.5.03

14. 5. 05

*Assigned*

+ L.M.B. 5,03.

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