

Rpt. 4.

REPORT ON MACHINERY

No. 35095

Received at London Office

Date of writing Report *April 2nd 1924* When handed in at Local Office *April 2nd 1924* Port of *HULL*
No. in Survey held at *Selby and Hull* Date, First Survey *Feb 5th* Last Survey *April 2nd 1924*
Reg. Book. on the *Shut screw tug "SALVAGE PRINCE"* (Number of Visits *9*)
Master *Selby* Built at *Selby* By whom built *Cochrane Sons & Co* Tons { Gross *183.54*
Engines made at *Newbury* By whom made *Plenty & Son Ltd* when made *1924*
Boilers made at *Newcastle* By whom made *Palmer S. & Co Ltd.* when made *1924*
Registered Horse Power *Owners Hudyske Lodge Salvage Co. Ltd.* Port belonging to *London*
Nom. Horse Power as per Section 28 *69* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

ENGINES, &c.—Description of Engines *Vertical Compound* No. of Cylinders *2* No. of Cranks *2*
Dia. of Cylinders *15" - 32"* Length of Stroke *24"* Revs. per minute *as per rule* Dia. of Screw shaft *as fitted* Material of screw shaft *as fitted*
Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Is the after end of the liner made water tight in the propeller boss*
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*
If two liners are fitted, is the shaft lapped or protected between the liners *Length of stern bush*
Dia. of Tunnel shaft *as per rule* Dia. of Crank shaft journals *as per rule* Dia. of Crank pin *Size of crank webs* Dia. of thrust shaft under collars *Dia. of screw* Pitch of Screw *No. of Blades* State whether moveable *Total surface*
No. of Feed pumps *Diameter of ditto* Stroke *Can one be overhauled while the other is at work*
No. of Bilge pumps *Diameter of ditto* Stroke *Can one be overhauled while the other is at work*
No. of Donkey Engines *Sizes of Pumps* No. and size of Suctions connected to both Bilge and Donkey pumps in Engine Room *London*
No. of Bilge Injections *sizes* Connected to condenser or circulating pump *Is a separate Donkey Suction fitted in Engine room & size*
Are all the bilge suction pipes fitted with roses *Are the roses in Engine room always accessible* *Are the sluices on Engine room bulkheads always accessible*
Are all connections with the sea direct on the skin of the ship *Are they Valves or Cocks*
Are they fixed sufficiently 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*
Are they each fitted with a Discharge pipe always accessible on the plating of the vessel *Are the Blow Off Cocks fitted with a spigot and brass covering plate*
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
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
Is the Screw Shaft Tunnel watertight *Is it fitted with a watertight door* worked from

BOILERS, &c.—(Letter for record *S*) Manufacturers of Steel *15B*
Total Heating Surface of Boilers *1411* Is Forced Draft fitted *No* No. and Description of Boilers *Cylindrical multibubled*
Working Pressure *140 lbs* Tested by hydraulic pressure to *Date of test* No. of Certificate
Can each boiler be worked separately *Area of fire grate in each boiler* *42 sq. ft.* No. and Description of Safety Valves to each boiler *2 Spring loaded* *Area of each valve* *6 sq. in.* Pressure to which they are adjusted *140 lbs* Are they fitted with easing gear *Yes*
Smallest distance between boilers *plates and bunkers or woodwork* *12"* Mean dia. of boilers *Length* Material of shell plates
Thickness *Range of tensile strength* Are the shell plates welded or flanged *Descrip. of riveting: cir. seams*
Long. seams *Diameter of rivet holes in long. seams* Pitch of rivets *Lap of plates or width of butt straps*
Percentages of strength of longitudinal joint *rivets* Working pressure of shell by rules *Size of manhole in shell*
Size of compensating ring *No. and Description of Furnaces in each boiler* Material *Outside diameter*
Length of plain part *top* Thickness of plates *crown* Description of longitudinal joint *No. of strengthening rings*
Working pressure of furnace by the rules *Combustion chamber plates: Material* Thickness *Back* Top Bottom
Pitch of stays to ditto: Sides Back Top *If stays are fitted with nuts or riveted heads* Working pressure by rules
Material of stays *Area at smallest part* Area supported by each stay *Working pressure by rules* End plates in steam space:
Material Thickness Pitch of stays *How are stays secured* Working pressure by rules Material of stays
Area at smallest part *Area supported by each stay* Working pressure by rules Material of Front plates at bottom
Thickness Material of Lower back plate *Thickness* Greatest pitch of stays Working pressure of plate by rules
Diameter of tubes Pitch of tubes *Material of tube plates* Thickness: Front Back Mean pitch of stays
Pitch across wide wat. spaces *Working pressures by rules* Girders to Chamber tops: Material *Depth and*
Thickness of girder at centre *Length as per rule* Distance apart *Number and pitch of stays in each*
Working pressure by rules *Steam dome: description of joint to shell* % 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 *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*
Diameter of Safety Valve *Pressure to which each is adjusted* Is Easing Gear fitted

009050 - 009057 - 0200

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

As per London Report 87351, attached.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1924: Feb 5 to Apr 2.
During erection on board vessel - - -
Total No. of visits 9

Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓ Pistons ✓ Rods ✓

Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft ✓ Propeller ✓

Stern tube ✓ Steam pipes tested 3/3/24. Engine and boiler seatings 5/2/24. Engines holding down bolts 2/2/24

Completion of pumping arrangements 26/3/24. Boilers fixed 5/2/24. Engines tried under steam 24/3/24.

Completion of fitting sea connections 24/3/24. Stern tube 24/3/24. Screw shaft and propeller 24/3/24.

Main boiler safety valves adjusted March 20th 1924. Thickness of adjusting washers P. 3/8" S. 5/16".

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

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

Material of Steam Pipes S. D. Copper, 4 1/2" Bore x 8 LB. Test pressure 300 Lbs per sq"

Is an installation fitted for burning oil fuel ✓ 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 ✓ If so, state name of vessel ✓

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

For Engines - Please see London Report 87351 sent herewith
Boiler - Newcastle 46485

The engines boiler of this vessel have been satisfactorily installed under special survey, tried under working conditions & found in order.

The safety valves have been adjusted as above, and the pumping arrangements found in good order.

The machinery is eligible in my opinion to have record in the Register Book of L.M.C. 4.24.

It is submitted that this vessel is eligible for THE RECORD. + LMC 4.24. CL.

JWD
4/4/24

John H. Mackay
Engineer Surveyor to Lloyd's Register of Shipping

Certificate (if required) to be sent to

The amount of Entry Fee £ : : When applied for, 2/4 1924
1/5 London 87351
Special
2/6 remainder from London Office
Donkey Boiler Fee £ : : When received 6/4 24

Travelling Expenses (if any) £ : : 1 : 0 : 10 6/4 24

Committee's Minute

Assigned

TUE. APR. 1924

+ L.M.C. 4.24
C.L.

CERTIFICATE WRITTEN



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