

REC'D NEW YORK AUG 10 1942

Rpt. 4.

REPORT ON MACHINERY.

No. 5563

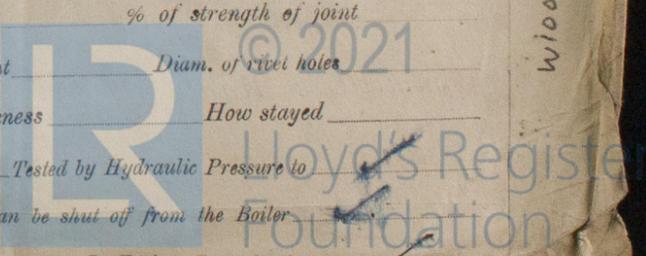
31 AUG 1942

Date of writing Report Aug 3rd 1942 When handed in at Local Office Aug 5th 1942 Port of Newport News Va
 No. in Survey held at Newport News Va Date, First Survey May 11 Last Survey June 27th 1942
 Reg. Book. 09085 on the New Machinery for the S/S ACME (Number of Visits 12)
 Master San Francisco Built at San Francisco By whom built Union Iron Works Tons { Gross 6878
 Engines made at Toledo Ohio By whom made Toledo Manufacturing Co Inc. when made 1942 Net 4304
 Boilers made at San Francisco By whom made Union Iron Works when made 1916-6
 Registered Horse Power 518.7 Owners Coomy-Mann Oil Co Inc Port belonging to New York
 Nom. Horse Power as per Section 28 518.7 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Direct acting Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 24 1/2 x 37 x 70 Length of Stroke 48 Revs. per minute 70 Dia. of Screw shaft 10 1/2 Material of Steel
 Is 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 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 ✓ If two liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 5'-6"
 Dia. of INTER. shaft as per rule 13.44 as fitted 14 1/4 Dia. of Crank shaft journals as per rule 14.11 as fitted 14 1/4 Dia. of Crank pin 4 15/16 Size of Crank web 9 1/2 x 42 3/8 of thrust shaft under collars 4 1/4 Dia. of screw 18'-0" Pitch of Screw 2 1/7-DRAD. 14'-6" No. of Blades 4 State whether moveable No Total surface 91-36 sq ft protected 104-93 sq ft
 No. of Feed pumps 2 Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work YES.
 No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 26 Can one be overhauled while the other is at work YES.
 No. of Donkey Engines 2 Sizes of Pumps 10 x 11 x 12 & 2 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2-3 1/2 W.E.R. 2-3 1/2 in boiler room 6 x 4 x 6 In Holds, &c.
 No. of Bilge Injections 1 sizes 10" Connected to circulating pump Yes. Is a separate Donkey Suction fitted in Engine room & size YES. 4 1/2"
 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 ✓
 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 the deep water line YES.
 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 NONE. 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 NO TUNNEL. Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record Original Boiler in Vessel.) Manufacturers of Steel Original Boiler in Vessel.
 Total Heating Surface of Boilers 9405 sq ft Is Forced Draft fitted No No. and Description of Boilers 3. Simple Ruled.
 Working Pressure 215 lbs Tested by hydraulic pressure to 322.5 lbs Date of test 5.5.1942 No. of Certificate
 Can each boiler be worked separately YES. Area of fire grate in each boiler Fuel oil. No. and Description of Safety Valves to each boiler ✓ Area of each valve ✓ Pressure to which they are adjusted ✓ Are they fitted with easing gear ✓
 Smallest distance between boilers or uptakes and bunkers or woodwork ✓ 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 ✓
 Per centages of strength of longitudinal joint ✓ 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 ✓ Thickness of plates ✓ Description of longitudinal joint ✓ No. of strengthening rings ✓
 Working pressure of furnace by the rules ✓ Combustion chamber plates: Material ✓ Thickness: Sides ✓ 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 water 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 ✓

UPERHEATER. Type ✓ Date of Approval of Plan NOT FITTED. 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 ✓



W1006-0163

IS A DONKEY BOILER FITTED? **No**

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— One new propeller shaft (C.L.) one complete bottom end bearing and one complete top end bearing: one set of metallic packing for each piston rod & valve spindle: one set of coupling bolts of each size: one set of pads for Mitchell Thrust block (Ahead & Astern): one set of valves in liquid line of each independent pump. One set of air pump & bilge pump valves and seats: one valve led in main sea chest for each boiler: impeller shaft in circulating pump: one set of rings for H.P. and M.P. pistons: one set for H.P. piston valve: 12 boiler like stoppers: one set of oil fuel burner nozzles complete with atomizers for each boiler. A set of both & nuts, studs & steel bars and flats of various sizes.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

May 11. 13. 15. 25. June 4. 10. 12. 17. 19. 25. 26. & 27. 1942
12.

Is the approved plan of main boiler forwarded herewith **No**

Is the approved plan of main boiler forwarded herewith **No**

Dates of Examination of principal parts—Cylinders 12.6.42 Slides 12.6.42 Covers 12.6.42 Pistons 12.6.42 Rods 12.6.42
Connecting rods 10.6.42 Crank shaft 25.5.42 Thrust shaft 25.5.42 Tunnel shafts ✓ Screw shaft 13.5.42 Propeller 1.6.42
Stern tube 30.4.42 Steam pipes tested 16.6.42 Engine under-boiler seatings 13.5.42 Engines holding down bolts 4.6.42
Completion of pumping arrangements 25.6.42 Boilers fixed ✓ Engines tried under steam 25.6.42
Completion of fitting sea connections 6.5.42 Stern tube 11.5.42 Screw shaft and propeller 17.6.42
Main boiler safety valves adjusted ✓ Thickness of adjusting washers 6403-4 A.B.
Material of Crank shaft I. Steel Identification Mark on Do. 6403-2 A.B. Material of Thrust shaft I. Steel Identification Mark on Do. 34354
Material of Tunnel shafts I. Steel Identification Marks on Do. F.403. C.S.H. Material of Screw shafts I. Steel Identification Marks on Do. 7354
Material of Steam Pipes Steel Test pressure 645 lbs per sq. in. 1575.W.B. 5.2.35.
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 **Standard 2500 H.P. Dupine**

General Remarks (State quality of workmanship, opinions as to class, &c.)
The Dupine now fitted on board this vessel was built under the Survey of the American Bureau of Shipping and the testing of all fittings and castings carried out by that Bureau in accordance with their rules. The Dupine one of good sturdy design & workmanship and have now been efficiently fitted in place & connected up. On completion of installation the main propelling machinery and auxiliary machinery were tested out and all found to be in good safe working condition. In my opinion the vessel is eligible for the second of L.M.C. B.S. 6-42 New Dupine fitted 6-42 and propeller shaft new 6-42 in the Repeater Box and is submitted for the Committee's favorable consideration.

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

In Statement
The amount of Entry Fee ... £ ...
Special ... £ ...
Donkey Boiler Fee ✓ ... £ ...
Travelling Expenses (if any) £ ...
When applied for, 19
When received, 19

J. Hudson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **NEW YORK AUG 12 1942**
Assigned **N. E. 6, 42. L.M.C. (A) - 6, 42.**

