

Rpt. 4.

REC'D NEW YORK AUG 10 1942
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 Engineering Co. Inc. Net 4304
Boilers made at San Francisco By whom made Union Iron Works When built 1916-6
Registered Horse Power 518.7 Owners Coomy-Mann Oil Co. Inc. when made 1942
Nom. Horse Power as per Section 28 518.7 Is Refrigerating Machinery fitted for cargo purposes No when made 1916-6
Is Electric Light fitted Yes Port belonging to New York

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 76 Dia. of Screw shaft 14 9/16 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 13 1/4 as per rule 14 1/4 Dia. of Crank shaft journals 14 1/4 as per rule 14 1/4 Dia. of Crank pin 4 15/16 Size of Crank web 9 1/2 x 42 7/8 of thrust shaft under
collars 14 1/4 Dia. of screw 18'-0" Pitch of Screw 2 1/7'-0" RAD. 14'-6" No. of Blades 4 State whether moveable No Total surface 91-36 sq ft projected
No. of Feed pumps 2 Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work YES 104-93 Delivered
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 9 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 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) 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 Single Ended
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 (S.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 Mitted Thrust block (Ahead & Aft): 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: propeller 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 & multi, slides & 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

Is the approved plan of main boiler forwarded herewith

No.

" " " donkey " " "

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. *34364 7384*
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. *1575 W.B. 8.2.35*
Material of Steam Pipes *Steel* Test pressure *645 lbs per sq*

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 Dupines now fitted on board this vessel was built under the Survey of the American Bureau of Shipping and the fitting of all fittings and castings carried out by that Bureau in accordance with their rules. The Dupines are of good, sturdy design & good 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 Dupines 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.

The amount of Entry Fee ... *£16.0.0* ... *See Rpt. 9.*
Special ... £ : : When applied for, 19
Donkey Boiler Fee *✓* ... £ : : When received, 19
Travelling Expenses (if any) £ : : 19

Committee's Minute

NEW YORK AUG 12 1942

Assigned *N. E. 6, 42. L.M.C. (N) - 6, 42.*

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



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Foundation