

Rpt. 4.

REC'D NEW YORK DEC 22 1920
REPORT ON MACHINERY

No. 145
MAR. 22 1921

Date of writing Report 21/12/20 When handed in at Local Office 21/12/20 Port of Cleveland Ohio
No. in Survey held at Hamilton Ohio Date, First Survey 25/8/20 Last Survey 18/12/1920
Reg. Book. on the ENG N^o 4841 Hull N^o (Number of Visits)
Master Built at By whom built Moore & B. Coy. Tons { Gross
Engines made at Hamilton O. By whom made Hooven Owens & Ransschuler Coy. when made 1920 Net
Boilers made at By whom made when made
Registered Horse Power Owners Vacuum Oil Coy. Port belonging to
Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple expansion, vertical No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 27 1/2 x 46 x 78 Length of Stroke 57 Revs. per minute 75 Dia. of Screw shaft as per rule Material of screw shaft
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 15 1/2 Dia. of Crank pin 16 1/4 Size of Crank webs 30 1/2 x 10 1/2 Dia. of thrust shaft under
collars as fitted 15 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 2 Diameter of ditto 5 Stroke 24 Can one be overhauled while the other is at work yes
No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room In Holds, &c.

No. of Bilge Injections sizes Connected to condenser, or to 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 Valve 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) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Working Pressure 220 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 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 rivets..... Working pressure of shell by rules Size of manhole in shell
plate.....
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
bottom.....
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

SUPERHEATER. Type Date of Approval of Plan 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

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Set of top end brasses, with bolts & nuts.
Set of bottom end bushes, with bolts & nuts. Pair of main bearing
parts, with bolts & nuts. Set of coupling bolts & nuts. Set of rings
H.P. I.P. & L.P. pistons. Set of valves for Air & bilge pumps. H.P. & L.P.
valve spindles complete. Link block & brasses. Air pump rod & bucket.
Piston rod & nut. Crank shaft section. Valve chest & cylinder cover
studs. Eccentric strap. Piston follower studs. Relief valve springs etc.

The foregoing is a correct description,

Hood & Sons, Leith, Scotland Manufacturer.

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

1920 25 Aug. 5 Oct. 15 Oct. 26 Oct. 19 Nov. 7 Dec. 18 Dec.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts: Cylinders 15/10/20, 26/10/20, 7/12/20, 18/12/20. Slides 7/12/20. Covers 7/12/20, 18/12/20. Pistons 7/12/20, 18/12/20. Rods 7/12/20, 18/12/20.

Connecting rods 18/12/20. Crank shaft 19/11/20. Thrust shaft. Tunnel shafts. Screw shaft. Propeller.

Stern tube. Steam pipes tested. Engine and boiler seatings. Engines holding down bolts.

Completion of pumping arrangements. Boilers fixed. Engines tried under steam.

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

Main boiler safety valves adjusted. Thickness of adjusting washers.

Material of Crank shaft Steel. Identification Mark on Do. LLOYDS. 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. Test pressure.

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.)

The above Engines have been built under Special Survey. The materials & workmanship employed in their manufacture, so far as can be seen, are sound & efficient.

When the Engines have been satisfactorily installed in the vessel, proved satisfactory under working conditions, & spare gear supplied as required by the Rules; this vessel will be eligible in my opinion for Record & L.M.C. (with date).

Certificate (if required) to be sent to

The amount of Entry Fee ... charged as per \$ 10. 1st Entry Machinery Rpt. No. 3462.
Special L.M.C. fee to be ...
Credited to Cleveland ...
Donkey Boiler Fee ...
Travelling Expenses (if any) \$ 138.75

When applied for,

When received,

S. J. Drummond

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York MAR - 8 1921

Assigned See S. J. Rpt. No 3462

Rpt. 13.

Port of

No. in Reg. Book

Owners

Yard No. 164

DESCRIPTION

Capacity of D

Where is Dyn

Position of M

Positions of

C-1 8 cir

If fuses are

circuits

If vessel is w

Are the fuses

Are all fuses

are perm

Are all switch

Total number

A 82

B 28

C 10

D 70

E

2 Mas

2

3

If are lights,

Where are th

DESCRIPTION

Main cable car

Branch cables

Branch cables

Leads to lamps

Cargo light cab

DESCRIPTION

A1

Joints in cables

junction

Are all the join

positions,

Are there any

How are the c



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