

Rpt. 4.

REPORT ON MACHINERY.

No. 26427.

MON. JUL. 7 - 1913

Date of writing Report 5-7-13. Port of Hull
When handed in at Local Office Date, First Survey Dec 10th 12. Last Survey June 25th 1913.
(Number of Visits 44)

No. in Survey held at Hull
Reg. Book. on the S.S. Van Vliet 70/04
Tons Gross Net
When built 1913

Master Built at Tude Hardinnvelly By whom built Van Vliet-Ho
Engines made at Hull By whom made Barlis & Co Ltd "No. 166" when made 1913-6
Boilers made at Hull By whom made Barlis & Co Ltd when made 1913-6

Registered Horse Power Owners Port belonging to
Nom. Horse Power as per Section 28 104 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c. Description of Engines Triple expansion
Dia. of Cylinders 15" - 25" - 40" Length of Stroke 27" Revs. per minute 96 Dia. of Screw shaft as fitted 9 1/2" Material of screw shaft steel
No. of Cylinders Three No. of Cranks 3

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no liner 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 3'-5 1/2"

Dia. of Tunnel shaft as per rule 7.46 Dia. of Crank shaft journals as fitted 7 7/8 Dia. of Crank pin 7 7/8 Size of Crank webs 5 1/2 x 1 1/2 Dia. of thrust shaft under
collars 7 7/8 Dia. of screw 10'-9" Pitch of Screw 12'-0" No. of Blades 4 State whether moveable no Total surface 38 sq ft

No. of Feed pumps two Diameter of ditto 2 1/4" Stroke 18" Can one be overhauled while the other is at work yes
No. of Bilge pumps two Diameter of ditto 2 1/4" Stroke 18" Can one be overhauled while the other is at work yes

No. of Donkey Engines two duplex Sizes of Pumps 6 x 8 1/2 x 6 Bilge & Ballast No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room one 2" in P.R. one 2" in Stokes In Holds, &c. two 2" dia

No. of Bilge Injections one sizes 3 1/2 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 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 none

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 or below the deep water line above

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 7ad suction How are they protected wood casing

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

Dates of examination of completion of fitting of Sea Connections 11-6-13 of Stern Tube 12-6-13 Screw shaft and Propeller 13-6-13

Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door worked from
BOILERS, &c. (Letter for record S) Manufacturers of Steel Phoenix & Winder Verin & Horde

Total Heating Surface of Boilers 1800 Is Forced Draft fitted no No. and Description of Boilers two single ended
Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 27-5-13 No. of Certificate 1986

Can each boiler be worked separately yes Area of fire grate in each boiler 29.57 No. and Description of Safety Valves to
each boiler two spring loaded Area of each valve 3.14 Pressure to which they are adjusted 185 Are they fitted with easing gear yes

Smallest distance between boiler uptakes and bunkers 4 ft 6 in Mean dia. of boilers 126" Length 10'-0" Material of shell plates S
Thickness 15/16" Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double

long. seams D.R.D.B.L. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 6 1/4" Length of plates or width of butt straps 12 3/4"
Per centages of strength of longitudinal joint rivets 84.4 Working pressure of shell by rules 184 Size of manhole in shell 12" x 16"

Size of compensating ring 8 5/16 x 1 5/16 No. and Description of Furnaces in each boiler two plain Material S Outside diameter 37"
Length of plain part top 8 1/4" bottom 7 1/4" Thickness of plates crown 3/4" Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 195 Combustion chamber plates: Material S Thickness: Sides 23/32 Back 23/32 Top 23/32 Bottom 23/32
Pitch of stays to ditto: Sides 11 x 8 3/4" Back 10 1/2 x 9" Top 10 3/4 x 9 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 193 End plates in steam space:

Material of stays S Diameter at smallest part 2.07 Area supported by each stay 96.5 Working pressure by rules 197 Material of stays S
Material S Thickness 15/16" Pitch of stays 14 1/4 x 14 How are stays secured N. T. Working pressure by rules 197 Material of Front plates at bottom S

Diameter at smallest part 4.22 Area supported by each stay 199.5 Working pressure by rules 220 Material of Front plates at bottom S
Thickness 15/16" Material of Lower back plate S Thickness 15/16" Greatest pitch of stays 14 x 9 Working pressure of plate by rules 218

Diameter of tubes 3 1/4" Pitch of tubes 4 1/2 x 4 5/8" Material of tube plates S Thickness: Front 15/16" Back 13/16" Mean pitch of stays 9 1/2"
Pitch across wide water spaces 14 1/4" Working pressures by rules 188 Girders to Chamber tops: Material S Depth and

thickness of girder at centre 8" x 1 1/2" Length as per rule 26 19/32 Distance apart 10 3/4" Number and pitch of stays in each two 8 1/4"
Working pressure by rules 200 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

If not, state whether, and when, one will be sent?

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