

# REPORT ON MACHINERY.

Port of *Rotterdam*

Received at London Office **MON. MAY 20 1901**  
Last Survey *13 May 1901*  
(Number of Visits *3*)

Survey held at *Zalt Bommel* Date, first Survey *1 May*

Book. *S.S. No 107 (Speedy)*

on the *S.S. No 107 (Speedy)* Built at *Zalt Bommel* By whom built *J. Meyer*

Tons { Gross -  
Net -  
When built *1901*

Lines made at *S. Shields* By whom made

when made

Boilers made at *D-* By whom made

when made

Registered Horse Power *Shipping Investments Ltd* Port belonging to *London*

Horse Power as per Section 28 Is Refrigerating Machinery fitted

Is Electric Light fitted

Engines, &c.—Description of Engines *will be fitted at S. Shields* No. of Cylinders No. of Cranks

Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Lgth. of stern bush

Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under

Dia. of screw Pitch of screw No. of blades State whether moveable Total surface

Diameter of ditto Stroke Can one be overhauled while the other is at work

Diameter of ditto Stroke Can one be overhauled while the other is at work

Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room In Holds, &c. *as far as now fitted*

*- 2 1/2" suction in after part of main hold.*

Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size

Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Are they Valves or Cocks

Are the discharge pipes above or below the deep water line

Are the blow off cocks fitted with a spigot and brass covering plate

How are they protected

all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

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

worked from

Boilers, &c.— (Letter for record ) Total Heating Surface of Boilers Is forced draft fitted

and Description of Boilers *will be fitted at S. Shields.* Working Pressure Tested by hydraulic pressure to

Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to

Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Mean dia. of boilers Length Material of shell plates

Range of tensile strength Are they welded or flanged Descrip. of riveting: cir. seams long. seams

Pitch of rivets Lap of plates or width of butt straps

Working pressure of shell by rules Size of manhole in shell

No. and Description of Furnaces in each boiler Material Outside diameter

Thickness of plates Description of longitudinal joint No. of strengthening rings

Combustion chamber plates: Material Thickness: Sides Back Top Bottom

If stays are fitted with nuts or riveted heads Working pressure by rules

Working pressure by rules End plates in steam space:

Working pressure by rules Material of stays

Working pressure by rules Material of Front plates at bottom

Working pressure of plate by rules

Material of tube plates Thickness: Front Back Mean pitch of stays

Working pressures by rules Girders to Chamber tops: Material Depth and

Distance apart Number and pitch of Stays in each

Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

End plates: Thickness How stayed

Area of safety valves to superheater Are they fitted with easing gear

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**DONKEY BOILER—** No. *One* Description *Vertical cross tube boiler.*  
*Berwick*  
 Made at *on Tweed* By whom made *Gies Black* When made *1901* Where fixed *In stehabul*  
 Working pressure *100* tested by hydraulic pressure to \_\_\_\_\_ No. of Certificate *490* Fire grate area *12.56* Description of safety valves *Direct spring*  
 No. of safety valves *one* Area of each *7.07* Pressure to which they are adjusted *100 lb* If fitted with easing gear *yes* If steam from main boilers can  
 enter the donkey boiler *no* Dia. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of tensile  
 strength \_\_\_\_\_ Descrip. of riveting long. seams \_\_\_\_\_ Dia. of rivet holes \_\_\_\_\_ Whether punched or drilled \_\_\_\_\_ Pitch of rivets \_\_\_\_\_  
 Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Rivets \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of Stays to do. \_\_\_\_\_  
 Dia. of stays \_\_\_\_\_ Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_ Description of  
 joint \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Stayed by \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_  
 Working pressure of furnace by rules \_\_\_\_\_ Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_

**SPARE GEAR.** State the articles supplied:—

*Mark on Donkey Boiler.*  
*Boiler No. 252*

*N<sup>o</sup> 490*  
*Lloyd's Test.*  
*200 lbs*  
*T F*  
*14.3.01.*

The foregoing is a correct description,

Manufacturer.

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

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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

*A temporary funnel has been made to get steam for adjusting of the  
 safety valve and to work winches and steering gear.*

*As regards the pipe arrangement a 2 1/2" pipe has been laid for bellows  
 suction fore & aft through the hold, and fitted with a 2 1/2" connection  
 and strum in forepeak tank.*

*Two 2 1/2" bilge pipes laid through crossbunkers and fitted with connections &  
 strums in after part of main hold.*

*The remainder of the pipe arrangement requires to be dealt with at  
 South Shields where Machinery and main boiler will be fitted by  
 Messrs D. T. Gray.*

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. £ : :  
 Special Fee £ 2 2 : :  
 Donkey Boiler Fee £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for, *14.3.01*  
 When received, *24.7.01*

*M. F. D. van Olphen*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute TUES. JUL 9 1901

Assigned



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 Foundation