

REPORT ON MACHINERY.

WED. AUG. 30. 1911  
No. 60611

Date of writing Report 10 When handed in at Local Office JUL 8 1911 Port of NEWCASTLE ON TYNE  
No. in Survey held at NEWCASTLE ON TYNE Date, First Survey 16<sup>th</sup> Feb. 1911 Last Survey 19  
Reg. Book. on the 15/5 1910 313 Meijer & Co. Zaltbommel (Number of Visits)

Master Built at Zaltbommel By whom built Meijer & Co. (s.s. 313) When built  
Engines made at South Shields By whom made G. J. Grey (Eng. No 462) when made 1911  
Boilers made at By whom made when made

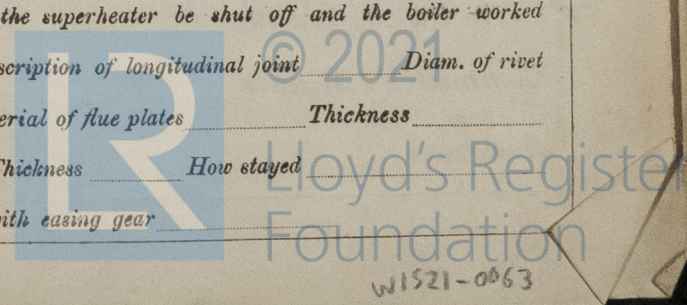
Registered Horse Power Owners Port belonging to  
Horse Power as per Section 28 86 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GINES, &c.—Description of Engines Triple Expansion Surface Condens<sup>g</sup>. No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 12" - 20" - 32" Length of Stroke 24" Revs. per minute Dia. of Screw shaft as per rule 7.08" Material of screw shaft Iron  
the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight  
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  
screws are fitted, is the shaft lapped or protected between the liners Length of stern bush 2'-6"  
Dia. of Tunnel shaft as per rule 6.2" Dia. of Crank shaft journals as per rule 6.5" Dia. of Crank pin 6 7/8" Size of Crank webs 4 1/2 x 12 7/8" Dia. of thrust shaft under  
plates 6 7/8" Dia. of screw 8'-0" Pitch of Screw 7'-7 1/2" No. of Blades 4 State whether moveable No Total surface 22 ft<sup>2</sup>  
No. of Feed pumps One Diameter of ditto 2 1/4" Stroke 13 1/2" Can one be overhauled while the other is at work  
No. of Bilge pumps One Diameter of ditto 2 3/4" Stroke 13 1/2" Can one be overhauled while the other is at work  
No. of Donkey Engines One Sizes of Pumps 5 1/4" x 3 1/2" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps  
Engine Room 3-2" In Holds, &c. Fore Hold centre 1-2" Main  
Hold 4-2" (To be examined on board when fitted)  
No. of Bilge Injections One sizes 2 3/4" Connected to condenser, or to circulating pump 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  
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  
Dates of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller  
the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

MANUFACTURERS, &c.—(Letter for record) Manufacturers of Steel  
Total Heating Surface of Boilers 1764 ft<sup>2</sup> Is Forced Draft fitted No. and Description of Boilers  
Working Pressure 180 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  
Percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
Type 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 Diameter 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  
Diameter 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 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

MEIJER & CO.

Shipping





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*Made at*

*By whom made*

*When made*

Where fixed

*Working pressure*      *tested by hydraulic pressure to*      *Date of test*      *No. of Certificate*      *Fire grate area*      *Description of Safety*

Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment

<i>If fitted with easing gear</i>	<i>If steam from main boilers can enter the donkey boiler</i>	<i>Dia. of donkey boiler</i>	<i>Length</i>
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<i>Material of shell plates</i>	<i>Thickness</i>	<i>Range of tensile strength</i>	<i>Descrip. of riveting long. seams</i>
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<i>Dia. of rivet holes</i>	<i>Whether punched or drilled</i>	<i>Pitch of rivets</i>	<i>Lap of plating</i>	<i>Per centage of strength of joint</i>
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Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays

<i>Diameter of furnace</i>	<i>Top</i>	<i>Bottom</i>	<i>Length of furnace</i>	<i>Thickness of furnace plates</i>	<i>Description of joint</i>
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Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by

<i>Diameter of uptake</i>	<i>Thickness of uptake plates</i>	<i>Thickness of water tubes</i>	<i>Dates of survey</i>
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SPARE GEAR. State the articles supplied:— Two top end bolts & nuts; two bottom end bolts & nuts  
two main bearing bolts; one set coupling bolts; six junk ring bolts; one set  
of air, cut<sup>2</sup>, feed & bridge pump valves; one propeller (To be examined on board)

*The foregoing is a correct description,*

is a correct description,  
Engine Manufacturer.

Dates of Survey while building	During progress of work in shops- -	1911 Feb. 16. 20. 23. Apr. 4. 25. May. 24. 25. June 3. 9. 14.
	During erection on board vessel - -	
	Total No. of visits	10 +

Is the approved plan

Is the approved plan of main boiler forwarded herewith

*Dates of Examination of principal parts—Cylinders 16/2/11 Slides 16/2/11 Covers 16/2/11 Pistons 23/2/11 Rods 23/2/11*

Connecting rods 23/2/11 Crank shaft 16/2/11 Thrust shaft 25/5/11 Tunnel shafts 25/5/11 Screw shaft 3/6/11 Propeller 3/6/11

Stern tube 3/6/11 Steam pipes tested ..... Engine and boiler seatings ..... Engines holding down bolts .....

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

Main boiler safety valves adjusted	Thickness of adjusting washers
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Material of Crank shaft steel Identification Mark on Do. 2631 W.D.H. Material of Thrust shaft Iron Identification Mark on Do. 2631 W.D.

Material of Tunnel shafts Steel Identification Marks on Do. 4140 M.R. Material of Screw shafts Iron Identification Marks on Do. 462 A.T.

[illegible]

*General Remarks* (State quality of workmanship, opinions as to class, &c. The engines of this vessel have been constructed under special survey, & the materials and workmanship are sound & good.

The amount of Entry Fee ... \$ 1 : 0 : 0 When applied for,

Special (Eng. only). £ 8 12 : 0

Donkey Boiler Fee . . . £ : : When received,

Travelling Expenses (if any) £ : : 31.7.11 7 319.8

*Committee's Minute* FRI. SEP. 1-1911

Assigned See Minute on Ann. Rpt

*Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.*

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Foundation

