

# REPORT ON MACHINERY.

No. 12057  
WED. 16 NOV. 1921

Received at London Office

Writing Report 22 Oct 1921 When handed in at Local Office 10 Port of Rotterdam  
 Survey held at Flushing Date, First Survey 23-10-19 Last Survey 20-9-1921  
 on the STEEL SCREW STEAMER, EDAM (Number of Visits 20)  
 Built at Flushing By whom built Hon Mr. De Schelde When built 1921  
 Made at Plydebank By whom made John Brown & Co. Ltd when made 1921  
 Made at Flushing By whom made Hon Mr. De Schelde when made 1921  
 Indicated Horse Power 880 Owners Holland Amerika Lijn Port belonging to Rotterdam  
 Horse Power at Full Power 4200 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

MAIN ENGINES, &c.—Description of Engines Brown Curtis DR Geared turbines No. of Turbines 3 - 2 units  
 of Rotor Shaft Journals, H.P. — L.P. — Diameter of Pinion Shaft See Glasgow report N° 40769  
 of Journals — Distance between Centres of Bearings — Diameter of Pitch Circle forwarded new with  
 of Wheel Shaft — Distance between Centres of Bearings — Diameter of Pitch Circle of Wheel —  
 of Thrust Shafts — Diameter of Thrust Shaft under Collars — Diameter of Tunnel Shaft —  
 of Propellers — Diameter of same as per rule — Diameter of Propeller 19'6" Pitch of Propeller 19'  
 of Rotor Drum, H.P. — L.P. — Astern — Total Surface 100 sq ft Diameter of Rotor Drum, H.P. — L.P. — Astern —  
 at Bottom of Groove, H.P. — L.P. — Astern — Revs. per Minute at Full Power, Turbine HP 1800 LP 1600 Propeller 72

## REGULARS OF BLADING.

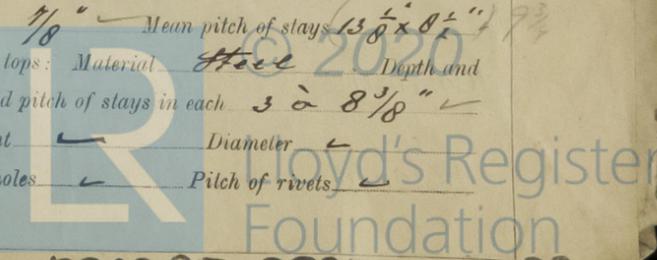
H. P.			L. P.			ASTERN.		
HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
[Diagram: A line sloping upwards from left to right across the H.P. section.]			[Diagram: A line sloping upwards from left to right across the L.P. section.]			[Diagram: A line sloping upwards from left to right across the ASTERN section.]		

of Feed pumps 2 à 12 1/2 x 9 x 24". 1 Aux à 12 1/2 x 9 x 24"  
 of Bilge pumps Duplex 2 x 10 x 10 x 10 Condenser 12 x 8 x 10 Diffuse transfer pump 4 x 8 x 18. Traps hubs. 8 x 8 x 15"  
 of Bilge suction in Engine Room Ballast pump 12 x 16 x 12 Sanitary pump 9 x 9 x 18. Fresh water pump 8 x 2 1/2 x 2 1/2"  
4 à 4" One in tunnel à 3 1/2" One in Rotterdam à 4"  
 In Holds, &c. 2 in No. 1, 2 in No. 2, 2 in No. 3, 1 in No. 6, 2 in forward

of Injections 1 sizes 1 1/2" Connected — to circulating pump Is a separate Donkey Suction fitted in Engine Room & size 8"  
 of Bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes  
 of Connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both  
 of Pipes 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 Both  
 of Pipes filled 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  
 of Pipes carried through the bunkers None How are they protected —  
 of Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes  
 of Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes  
 of Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper platform

of Boilers, &c.—(Letter for record S) Manufacturers of Steel John Spencer & Co. Ltd David Colville etc  
 of Heating Surface of Boilers 11300 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 4 single ends Marine Boilers  
 of Pressure 215 lbs Tested by hydraulic pressure to 325 lbs Date of test 29-10-20 No. of Certificate 714 & 720  
 of Boiler worked separately Yes Area of fire grate in each boiler 61.8 sq ft No. and Description of Safety Valves to —  
 of Spring loaded — Area of each valve 12.5 sq ft Pressure to which they are adjusted 215 lbs Are they fitted with easing gear Yes  
 of Clearance between boilers or uptakes and bunkers or woodwork Over 24" Mean dia. of boilers 16' Length 12' Material of shell plates Steel  
 of Range of tensile strength 28.5 - 32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap & riv  
 of Diameter of rivet holes in long. seams 1 9/16" Pitch of rivets 10 1/4" Lap of plates or width of butt straps 22 3/4"  
 of rivets 0.5% Working pressure of shell by rules 233 lbs Size of manhole in shell 16 x 18"  
 of plates 0.4%

of Insulating ring 16 x 1 5/8" No. and Description of Furnaces in each Boiler 3 Mammom Material Steel Outside diameter 4' 1 1/4"  
 of Thickness of plates 5/8" Description of longitudinal joint Welded No. of strengthening rings —  
 of Pressure of furnace by the rules 252 lbs Combustion chamber plates: Material Steel Thickness: Sides 3/4" Back 3/4" Top 3/4" Bottom 7/8"  
 of Sides 4 1/8 x 8 3/4" Back 7 7/8 x 8 3/4" Top 8 7/8 x 8 3/4" If stays are fitted with nuts or riveted heads — Working pressure by rules 250 lbs  
 of Area 2.04 sq ft Area supported by each stay 600 sq in Working pressure by rules 250 lbs End plates in steam space —  
 of Thickness 1 1/4" Pitch of stays 10 x 15 3/8" How are stays secured — Working pressure by rules 250 lbs Material of stays Steel  
 of Smallest part 5.94 sq ft Area supported by each stay 200 sq in Working pressure by rules 215 lbs Material of Front plates at bottom Steel  
 of Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 14 1/4 x 8 3/4" Working pressure of plate by rules 256 lbs  
 of Pitch of tubes 4 1/8 x 4 1/4" Material of tube plates Steel Thickness: Front 1 1/16" Back 7/8" Mean pitch of stays 13 5/8 x 8 1/2"  
 of Working pressures by rules 440 lbs Girders to Chamber tops: Material Steel Depth and —  
 of Length as per rule 2' 9 1/8" Distance apart 8 1/4" Number and pitch of stays in each 3 à 8 1/8"  
 of Steam dome: description of joint to shell — of strength of joint — Diameter —  
 of Material — Description of longitudinal joint — Diameter of rivet holes — Pitch of rivets —  
 of Crown plates: Thickness — How stayed —



002385-002400-0022

SUPERHEATER. Type *Schmied* 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 *215 lbs* Is Easing Gear fitted *Yes*

IS A DONKEY BOILER FITTED? *No* If so, is a report now forwarded? \_\_\_\_\_

SPARE GEAR. State the articles supplied:— *Checked and found as per attached list and in accordance with the requirements of the Rules.*

The foregoing is a correct description,  
 Koninglijke Maatschappij de Waerheid  
 Scheepsbouw en Werktuigenfabriek *M. W. van der Meer* Manufacturer.

Dates of Survey while building  
 During progress of work in shops -- 1919 23/10, 1920 24/1, 13/3, 8/6, 29/6, 29/8, 13/10, 18/10, 29/10, 23/11, 1921 6/1, 10/1, 18/1  
 During erection on board vessel --- 1921 3/3, 7/4, 8/8, 10/8, 5/8, 5/9, 13/9, 19/9, 20/9  
 Total No. of visits *28* Is the approved plan of main boiler forwarded herewith *Retained in London office*  
 " " " donkey " " " \_\_\_\_\_

Dates of Examination of principal parts—Casings \_\_\_\_\_ Rotors \_\_\_\_\_ Blading \_\_\_\_\_ Gearing \_\_\_\_\_  
 Rotor shaft \_\_\_\_\_ Thrust shaft *Made* Tunnel shafts *in* Screw shaft *the* Propeller *UK*  
 Stern tube \_\_\_\_\_ Heating coils *3/8 - 5/8 - 3/8* Steam pipes tested *1/8 - 3/8* Engine and boiler seatings *10-2-21* Engines holding down bolts *2-7-21*  
 Completion of pumping arrangements *6-9-21* Boilers fixed *3-5-21* Engines tried under steam *14-9-21*  
 Main boiler safety valves adjusted *14-9-21* Thickness of adjusting washers *Part FW 14mm SBF 16mm PA 16mm SBA 19mm*  
 Material and tensile strength of Rotor shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_  
 Material and tensile strength of Pinion shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_  
 Material of Wheel shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_ Material of Thrust shaft *Steel* Identification Mark on Do. *ANNK 5079*  
 Material of Tunnel shafts *Steel* Identification Marks on Do. *ANNK 1546-1591-1440* Material of Screw shafts *Steel* Identification Marks on Do. *ANNK 1559 21-0-20*  
 Material of Steam Pipes *Steel* Test pressure *645 lbs*

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 a duplicate of a previous case *Yes* If so, state name of vessel *5/5 "MAASDAM"*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery has been made in accordance with the Rules, Sec. Letters and approved plans, material tested as required and workmanship good, the whole was found in a good working condition during a trial trip on the Northsea and I am of opinion that this vessel is eligible to be recorded in the Society's Register Book with **LMC 9-21** fitted for burning oil fuel, flash point above 150°F*

The amount of Entry Fee ... £ *42.00* When applied for, *2/11 1921*  
 3/- Special ... £ *858.00*  
 Donkey Boiler Fee ... £ : : When received, *14/11 1921*  
 Travelling Expenses (if any) £ *240.00*

*J. J. Schoor*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 24 FEB. 1922*  
 Assigned *+ LMC 9.21 Fitted for oil fuel 9.21*  
*30, 1/2* *fl. above 150°F*



Certificate (if required) to be sent to... Rotterdam Surveyors

The Surveyors are requested not to write on or below the space for Committee's Minute.

CERTIFICATE WRITTEN.