

REPORT ON MACHINERY.

No. 8089.

Received at London Office THU. JUL. 22 1920

of writing Report July 1920 When handed in at Local Office 19 Port of Amsterdam
Date, First Survey 9 Sept 1919. Last Survey 18 June 1920
(Number of Visits 24.)

Survey held at Amsterdam
on the Engines & Boilers of C. No. 565
Built at *Slikkeweer* By whom built *de Wed Kroele Scheepwerf* When built

Engines made at *Amsterdam* By whom made *Kroschire & Co Scheepwerf & Machinefabriek* when made 1920
Boilers made at *Amsterdam* By whom made *Kroschire & Co Scheepwerf & Machinefabriek* when made 1920.

Registered Horse Power Owners *Messrs J. A. van der Schuyt.* Port belonging to *Papendrecht*
Nom. Horse Power as per Section 28 *1207 121.* Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines *Triple Expansion* No. of Cylinders *three* No. of Cranks *three*
Dia. of Cylinders *15" x 15" x 40"* Length of Stroke *24"* Revs. per minute *90* Dia. of Screw shaft as per rule *8 1/2"* Material of screw shaft *St. Mann In*
the screw shaft fitted with a continuous liner the whole length of the stern tube *No liners* Is the after end of the liner made water tight
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
bearings are fitted, is the shaft lapped or protected between the liners Length of stern bush *35 1/8"*

Tunnel shaft as per rule *7 1/4"* Dia. of Crank shaft journals as per rule *7 1/8"* Dia. of Crank pin *4 1/8"* Size of Crank webs *4 1/2" x 4 1/2"* Dia. of thrust shaft under
screw *4 1/8"* Dia. of screw *10 1/2"* Pitch of Screw *12 1/8"* No. of Blades *4* State whether moveable Total surface *4329 sq ft*
Feed pumps *two* Diameter of ditto *2 3/16"* Stroke *13 1/2"* Can one be overhauled while the other is at work
Bilge pumps *two* Diameter of ditto *2 3/16"* Stroke *13 1/2"* Can one be overhauled while the other is at work
Donkey Engines *two* Sizes of Pumps *6 x 4 x 6 Duplex* No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room In Holds, &c.

Bilge Injections *one* sizes *3 9/16"* Connected to condenser circulating pump Is a separate Donkey Suction fitted in Engine room & size
Are 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 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
Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

ENGINES, &c.—(Letter for record *5*) Manufacturers of Steel *Jules Krauss & Co Mannesmann, Friedrich Krupp*
Heating Surface of Boilers *2281 sq ft* Is Forced Draft fitted No. and Description of Boilers *Two Single Ended*
Working Pressure *12.65 kg* Tested by hydraulic pressure to *360 lbs* Date of test *26 Jan 1920* No. of Certificate *276 & 277.*

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
Least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers *3248 mm* Length *3155 mm* Material of shell plates *Steel*
Thickness *24 mm* Range of tensile strength *44 to 50 kg* Are the shell plates welded or flanged *plain* Descrip. of riveting: cir. seams *Double Riv*
seams *Double Straps* Diameter of rivet holes in long. seams *25 mm* Pitch of rivets *180 mm* Lap of plates or width of butt straps *410 mm*
Percentages of strength of longitudinal joint rivets *80%* Working pressure of shell by rules *12.7 kg* Size of manhole in shell *300 x 400 mm*
of compensating ring *180 x 24 mm* No. and Description of Furnaces in each boiler *two Morrison* Material *Steel* Outside diameter *1050 mm*
Thickness of plates top *13.5 mm* Description of longitudinal joint *Welded* No. of strengthening rings

Working pressure of furnace by the rules *13.9 kg* Combustion chamber plates: Material *Steel* Thickness: Sides *16 mm* Back *14 mm* Top *16 mm* Bottom *22 mm*
of stays to ditto: Sides *200 x 180* Back *180 x 180* Top *205 x 180* If stays are fitted with nuts or riveted heads *Wisted heads* Working pressure by rules *12.8 kg*
Material of stays *Steel* Area at smallest part *1767 mm* Area supported by each stay *180 x 180* Working pressure by rules *30.1 kg* End plates in steam space:
Material *Steel* Thickness *21 + 15* Pitch of stays *355* How are stays secured *double nuts* Working pressure by rules *20.5 kg* Material of stays *Steel*
Area at smallest part *59396* Area supported by each stay *126025 mm* Working pressure by rules *20.5* Material of Front plates at bottom *Steel*

Thickness *21 mm* Material of Lower back plate *Steel* Thickness *19 mm* Greatest pitch of stays *310* Working pressure of plate by rules *25 kg*
Diameter of tubes *82.5 mm* Pitch of tubes *110 mm* Material of tube plates *Steel* Thickness: Front *21 mm* Back *21 mm* Mean pitch of stays *220 x 220*
Working pressures by rules *22.9 & 14.4 kg* Girders to Chamber tops: Material *Steel* Depth and
width of girder at centre *180 x 29 mm* Length as per rule *640 mm* Distance apart *180 mm* Number and pitch of stays in each *two 205 mm*
Working pressure by rules *18.4 kg* Steam dome: description of joint to shell % of strength of joint

Superheater. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
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:— Two Connecting Rod tops & bottom ends bolts & nuts, two main bearings & one set of Coupling bolts & nuts, two feed & two bilge pump valves & a quantity of bolts & nuts assorted. One set of piston rings. Iron of various sizes.

The foregoing is a correct description,

TYBESCHURE & CO'S
SCHIEPERSWEEF & MASCHINEFABRIEK

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 9-19 Sept. & Oct. 6-17 Nov. 12-29 Dec. 1919, Jan 14-24-31, Feb 3-14, March 5-10-23, April 7-22, May 5, 12-19-18, June 15-18, 1920.
During erection on board vessel --
Total No. of visits 24 visits

Is the approved plan of main boiler forwarded herewith Yes

Is the approved plan of donkey boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 14 19 31 10-14 Slides 10-14 10 Covers 10 7/4 Pistons 10-14 7/4 Rods 5 7/4
Connecting rods 5 7/4 Crank shaft 17-31 10 13 Thrust shaft 10 13 Tunnel shafts Screw shaft 31 10 Propeller 10 5/3
Stern tube 14 10 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 S.M. arm Identification Mark on Do. LLOYDS No. 217 J.B.S. 10.1.20 Material of Thrust shaft S.M. arm Ingot steel Identification Mark on Do. LLOYDS No. 118 J.B.S. 10.1.20
Material of Tunnel shafts Identification Marks on Do. LLOYDS No. 219 J.B.S. 10.1.20 Material of Screw shafts S.M. arm Ingot steel Identification Marks on Do. LLOYDS No. 219 J.B.S. 10.1.20
Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel? Yes. 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 machinery & boilers as stated in this report have been constructed in accordance with the Society's rules and approved plans which are herewith forwarded to London Office. The workmanship is good and material used in the construction is of good ductile quality and duly tested as required. All cylinders, Condenser & stern tube have been tested under high pressure & found tight. Boilers tested to twice the working pressure viz 360 lbs per sq inch, found tight in every respect and no setting whatever.

The machinery & boilers have been sent to Messrs de Wed Koel's Scheepswerf & machine fabriek at Hlikkerweer (Rott district) in order to be placed on their S.S. 565. A copy of this report and the pumping & liquid fuel arrangement plan have been forwarded to the Society's Rotterdam district Messrs. As regards the liquid fuel installation it has been reported that this will be fitted by the Smith's Dock Co Ltd Middlesbrough.

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 ... £ : : When applied for,
2/3 Special ... £ 145.20 : : July 1920
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ 1.- : : July 1920

J. H. M. ...
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See minute on Roll 11495

TUE. NOV. 16 1920



© 2021

Lloyd's Register Foundation