

REPORT ON MACHINERY.

No. 274

Received at London Office

MON. JUN. 22 1914.

Date of writing Report 5th June 1914 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Papendrecht & Tilburg

Date, First Survey 10th Oct 1913

Last Survey June 1914

Reg. Book.

on the Steel Screw Steamer

ALMACRO

(Number of Visits 19)

Tons Gross 227.

Net 191

Master W van Ooyen Built at Papendrecht By whom built J. A. J. Schuyt Thys & Eng Co When built 1914

Engines made at Papendrecht By whom made J. A. J. Schuyt Thys & Eng Co when made 1914

Boilers made at Tilburg By whom made Albion Cegi Deperre when made 1914

Registered Horse Power 114 Owners N.V. Transportbedrijf Almacro Port belonging to Rotterdam

Nom. Horse Power as per Section 28 114 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 14 3/8 x 13 3/8 x 13 3/8 Length of Stroke 26 1/4 Revs. per minute 140 Dia. of Screw shaft 8 1/2 Material of screw shaft Steel
Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
in the propeller boss Yes If the liner is in more than one length are the joints burned one length 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 Yes If two
liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 36
Dia. of Tunnel shaft 7 1/2 Dia. of Crank shaft journals 8 Dia. of Crank pin 8 Size of Crank webs 12 x 12 Dia. of thrust shaft under
collars 8 Dia. of screw 8 9/16 Pitch of Screw 11 1/2 No. of Blades 4 State whether moveable No Total surface 33 sq ft
No. of Feed pumps 2 Diameter of ditto 2 1/8 Stroke 13 3/8 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 2 1/8 Stroke 13 3/8 Can one be overhauled while the other is at work Yes
No. of Donkey Engines 2 Sizes of Pumps 4 1/2 x 2 1/2 x 4 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Two 2 1/2 in engine room One 2 1/2 in boiler room In Holds, &c. One 2 1/2 in fore hold One 2 1/2 in fore hold

No. of Bilge Injections 2 sizes 4 Connected to condenser and circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes, 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
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 None How are they protected
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 2nd April 1914 of Stern Tube 2nd April 1914 Screw shaft and Propeller 2nd April 1914
Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 3) Manufacturers of Steel Albion Thys & Eng Co
Total Heating Surface of Boiler 2152 sq ft Is Forced Draft fitted No No. and Description of Boilers Two horizontal marine
Working Pressure 186 lbs Tested by hydraulic pressure to 372 lbs Date of test 2/4 14 No. of Certificate 561
Can each boiler be worked separately Yes Area of fire grate in each boiler 36.5 sq ft No. and Description of Safety Valves to
each boiler Two spring loaded Area of each valve 5.9 sq ft Pressure to which they are adjusted 186 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 22 Mean dia. of boilers 9 1/8 Length 10 9/16 Material of shell plates Steel
Thickness 1 Range of tensile strength 28-32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap & rivet
long. seams Double butt 5 x 10 Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 1/16 Lap of plates or width of butt straps 1 6/8
Per centages of strength of longitudinal joint rivets 9 1/2 plate 8 5/8 Working pressure of shell by rules 220 lbs Size of manhole in shell 16 x 12 3/8
Size of compensating ring 6 x 1 flange No. and Description of Furnaces in each boiler 2 Monitors Material Steel Outside diameter 48
Length of plain part top 10 bottom 10 Thickness of plates crown 3/16 bottom 3/16 Description of longitudinal joint Welded No. of strengthening rings
Working pressure of furnace by the rules 186 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 1/8
Pitch of stays to ditto: Sides 8 1/2 x 8 Back 7 1/2 x 8 1/2 Top 7 1/2 x 8 1/2 If stays are fitted with nuts or riveted heads riveted heads Working pressure by rules 204 lbs End plates in steam space:
Material of stays Steel Diameter at smallest part 2 1/2 Area supported by each stay 59 sq in Working pressure by rules 240 lbs Material of stays Steel
Material Steel Thickness 15/16 Pitch of stays 15 1/4 How are stays secured riveted in plates and nuts outside Working pressure by rules 240 lbs Material of Front plates at bottom Steel
Diameter at smallest part 4 1/2 Area supported by each stay 240 sq in Working pressure by rules 192 lbs Material of Front plates at bottom Steel
Thickness 13/16 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays 13 1/4 Working pressure of plate by rules 240 lbs
Diameter of tubes 3 1/4 Pitch of tubes 4 1/4 Material of tube plates Steel Thickness: Front 13/16 Back 13/16 Mean pitch of stays 8 1/2
Pitch across wide water spaces 13 1/4 Working pressures by rules 259 lbs Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 7 1/2 x 28 1/2 Length as per rule 2 5/8 Distance apart 8 1/2 Number and pitch of stays in each 2 x 1 1/2
Working pressure by rules 258 lbs Superheater or Steam chest; how connected to boiler riveted Can the superheater be shut off and the boiler worked
separately Yes Diameter 10 1/8 Length 2-0 Thickness of shell plates 3/4 Material Steel Description of longitudinal joint Welded 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

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— *Two bottom end bolts and nuts, Two top end bolts and nuts, Two bearing bolts and nuts, One set of connecting bolts, one set of bilge pump valves, one set of feed pump valves, one set of air pump valves, one set of piston springs, one safety valve spring, one piston rod, one crankshaft, one screwshaft, a quantity of assorted bolts and nuts and iron of various sizes, a propeller.*

The foregoing is a correct description,

J. & A. van der SCHUYT
Manufacturer. SHIPBUILDING & ENGINEERING Co.

Dates of Survey while building { During progress of work in shops - - } *Oct 10-31 Nov 22 Dec 12-19-22-29-30-31/1913 Jan 22-27 Feb 5-9-18 March 8.*
{ During erection on board vessel - - - } *April 2-11 May 13 June 2 1914*
Total No. of visits *19*

Is the approved plan of main boiler forwarded herewith *Yes*
" " " " " " " " *Yes*

Dates of Examination of principal parts—Cylinders *10-31/13 17-14* Slides *12-24/13 27-14* Covers *27-14* Pistons *27-14* Rods *11-14 27-14*
Connecting rods *27-14* Crank shaft *Made* Thrust shaft *in Gun* Tunnel shafts *many* Screw shaft *19-30-14 13* Propeller *27-14*
Stern tube *27-14* Steam pipes tested *24-14* Engine and boiler seatings *24-24-14* Engines holding down bolts *24-14*
Completion of pumping arrangements *13-14* Boilers fixed *27-14* Engines tried under steam *27-14*
Main boiler safety valves adjusted *27-14* Thickness of adjusting washers *13-16 mm F 9-10 mm A.*
Material of Crank shaft *LM Steel* Identification Mark on Do. *W 5-9-13* Material of Thrust shaft *LM Steel* Identification Mark on Do. *W 5-9-13*
Material of Tunnel shafts *LM Steel* Identification Marks on Do. *W 5-9-13* Material of Screw shafts *LM Steel* Identification Marks on Do. *W 5-9-13*
Material of Steam Pipes *Solid drawn copper.* Test pressure *3 1/2 lbs per sq inch*

Is an installation fitted for burning oil fuel *No*

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 *No* If so, state name of vessel

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

The machinery has been made in accordance with the approved plans and I see letters, the material tested as required by the Rules and workmanship good. We are of opinion that this vessel is eligible to be recorded in the Society's Register Book with **+ LMC 6.14**

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 6.14.

The amount of Entry Fee ... £ *24.00*
Special ... £ *205.00*
Donkey Boiler Fee ... £
Travelling Expenses (if any) £ *40.00*

When applied for,

20/6 1914

When received,

30/6/14

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

Committee's Minute TUE. JUN. 23. 1914

Assigned

MACHINERY CERTIFICATE
WRITTEN



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Lloyd's Register
Foundation

Rpt. 13.

REP

Port of *Ph*

No. in on the
Reg. Book Built a

Owners *ENVD*

Yard No. *63*

DESCRIPTION OF

Co

Capacity of Dynamo

Where is Dynamo f

Position of Main Su

Positions of auxilia

If fuses are fitted
circuits

If vessel is wired on

Are the fuses of no

Are all fuses fitted

are permanent i

Are all switches and

Total number of ligh

A *Aa*

B *Bb*

C *Cc*

D *Dd*

E *Ee*

3 Mast head

2 Side l

If are lights, what pr

Where are the switc

DESCRIPTION OF

Main cable carrying

Branch cables carrying

Branch cables carrying

Leads to lamps carry

Cargo light cables carry

DESCRIPTION OF

Joints in cables, how n

Are all the joints of ca

positions, none be

Are there any joints i

How are the cables le