

(Received at London Office 30 AUG 1933)
 Writing Report 22nd August 1933 When handed in at Local Office 28th Aug. 1933 Port of Göthenburg

Size of 22 Survey held at Göthenburg Date, First Survey 20th July Last Survey 22nd Aug. 1933
 on the Machinery of the Wood, Iron or Steel Le. "KOSMOS" (No. of Visits 7)

Gross 17801 Vessel built at Belfast By whom Workman, Clark & Co. When 1929-7
 Net 11789 Engines made at Belfast By whom Workman, Clark & Co. When 1929
988 Boilers, when made (Main) 1929 (Donkey)
 n Boilers 5 Owners Waldfangelskapet "Kosmos" Owners' Address
 ss Boilers 40 Managers A. Jahre (if not already recorded in Appendix to Register Book.)
 ssure Boilers 250 lbs Port Sandefjord Voyage
 ss Boilers 38-60 lbs If Surveyed Afloat or in Dry Dock Both
 ss Boilers 2-65 lbs (State name of Dock.) Göteborg

Report No. _____ Port _____
 Particulars of Examination and Repairs (if any) Part LMC & Pr. B.S.

Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on damage (the cause of which must be stated) should be separated from Repairs due to other causes; and any detailed in the body of the report, should be briefly summarised at the end of the report. State also the initials of any letters respecting this case.

cases where the Surveyor has not made a special damage report he is required to state whether he declines his services for this purpose, and why they were declined ✓
 special damage report made by anyone else? If so, by whom? ✓

Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? No
 " " " " " " Yes

What done, state for what reasons? Main boilers not made ready for survey.
 Parts of the Boilers could not be thus thoroughly examined? ✓

Special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of these parts of each Boiler? ✓
 Date of internal examination of each boiler? Press during August 1933.

Surveyor examine the Safety Valves of the Main Boiler? ✓ To what pressure were they afterwards adjusted under steam? ✓
 Surveyor examine the Safety Valves of Donkey Boiler? Press yes To what pressure were they afterwards adjusted under steam? ✓

Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? ✓ and of the Donkey Boilers? Press yes
 Surveyor examine the drain plugs of the Main Boilers? ✓ and of the Donkey Boiler? Press None fitted

Surveyor examine all the mountings of the Main Boilers? ✓ and of the Donkey Boiler? Press yes.

Shaft now been drawn and examined? No Is it fitted with continuous liner? ✓ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? No

Shaft now fitted been previously used? ✓ Has it a continuous liner? ✓ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓

Examination of Screw Shaft ✓ State the distance between lignum vite or bearing metal of stern bush and top of after bearing of screw shaft ✓
 If not complete, state what arrangements have been made for its completion and what remains to be done See below

The propeller, sea cocks and valves and fastenings of the sea connections examined.

The after I.P. cylinder, cover, piston and rod examined.

All press boilers examined in & externally with fittings and connections.

Repairs effected due to wear & tear.

The tips of the propeller blades which were corroded cut off and new tips welded on electrically.

The after I.P. cylinder liner which was worn renewed.

I.P. piston skimmed in lathe and rings renewed.

The I.P. piston rod packing gland renewed. P.T.O.

General Observations, Opinion, and Recommendation: The machinery of this vessel is
 State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.: thus, for example, B.S. 9,11, B.&M.S. 9,11, or L.M.C. 9,11, 140 lb., F.D., &c.)

eligible in my opinion to remain as now classed in the Register Book and to have notation of Pr. B.S. 8.33 and when the survey is completed to have record of L.M.C. 8.33.

Fee (per Section 29) £ : 425.00 (Eggs applied for 28th Aug. 1933)
 Damage or Repair Fee (if any) (per Section 29.) £ : _____
 Working expenses (if chargeable) £ : 11.9 (Received by me, 11.9.1933)

Committee's Minute _____
 Signed _____ TUE. 26 SEP 1933

TUE. 12 DEC 1933
 FRI. 28 SEP 1934
 TUE. 16 OCT 1934
 S. Benzelius
 Engineer Surveyor to Lloyd's Register of Shipping.
 TUE. 23 OCT 1934
 FRI. 21 DEC 1934
 FRI. 5 JUL 1935
 TUE. 26 NOV 1935

Insert Character of Ship and Machinery precisely as in the Register Book. Yes. Surveyor's Office, Göthenburg.

Is a Certificate required? If so, to be sent to _____

M.B.—If this Report is copied by copying Press, especial care must be taken that the copying paper is not so much damped as to spread the ink, or to cause it to show through to the other side.

Plan
revised
(except
for bolts)
So far as the
repair is
concerned
alterations.

The shell of 4 bone-press-boilers found thin
in way of the chain driving the internal drum.
In order to avoid the chain chafing the shell
a box has been fitted on the shell under the
chain and a hole taken up in the shell
allowing free space for the chain as approved
in London 14.8.33.

Four vertical press boilers have been removed
and 2 horizontal bone and meat boilers fitted
instead.

Marking of new boilers.	Marking of receivers
LLOYDS TEST 10KG.	LLOYDS TEST 160 LBS
W P 4.5KG.	W P 80 LBS
P.B.R. 28.6.33	P.B.R. 22.6.33
	P.E. 6.6.33

The boilers and receivers have been made
by Kampens Verkested, Oslo.

The mountings and pipe-connections of 26
vertical pressboilers have been renewed and
altered to suit new arrangement of boiling.

The press boiler plant now consists of

26	vertical press boilers	for 60 lbs.
8	horizontal " " "	60 " (rubber boilers)
4	" " " "	60 " (bone & meat boilers)
2	" " " "	65 "

To complete L.M.C survey all the Rules requirements remain
to be complied with except the examination
of the above.

It was stated that the L.M.C survey will
be completed before the expiration of the year
of grace as approved in the Secretary's letter
addressed to the Oslo Surveyors.