

# EMIL HERZBERG

Maschinen-Inspector

SHIP AND ENGINEER SURVEYOR TO LLOYD'S  
REGISTER OF BRITISH AND FOREIGN SHIPPING,  
STETTIN.

Telegramm-Adresse:

HERZBERG, STETTIN, BOLLWERK.

TELEPHON NO. 135.

Stettin, 5<sup>th</sup> Mai 1905  
Bollwerk No. 12-14.

LLOYDS REGISTER  
LONDON.

REC'D 8 MAY 1905

ANS'D 9

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Sir,

In duly reply to your letter of the 3<sup>rd</sup> instant respecting the diameters of shafts of the S.S. *Elvine Köpper* I beg to hand you attached a sketch showing the dimensions of the screw and the intermediate shafts as laid in the ship.

The diameter of the intermediate shaft was found from the formula  $(.038 A + .009 B + .002 D + .0165 S) \times \sqrt[3]{P}$   
 $= (.038 \times 18 + .009 \times 29 + .002 \times 47 + .0165 \times 36) \times \sqrt[3]{170} = 9.04682 = 9 \text{ inches}$

The diameter of the screw shaft is taken from the formula:  
 $(.63 + \frac{.03 P}{T})$  multiplied with 9 =  $9 \times (.63 + \frac{.03 \times 15.42}{9}) = 10.296''$

The diameter of the screw as fitted in the ship is at the smallest part  $10\frac{1}{2}''$  full ( $267 \text{ mm}$ ) =  $\frac{4}{20}$  of an inch more than required by the Rules.

I hope that this explanation will suit you and I beg to submit the case to the consideration of the Committee.

Yours, Sir,

Enclosure

The  
Secretary  
Lloyd's Register  
London

Your obedient servant  
Emil Herzberg  
Surveyor to Lloyd's Register



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STETTIN.

Secretary.



Referred to the Chief Engineer Surveyor.

Referred to the Chief Engineer Surveyor.

as

8 MAY 1905

Also for Mr. S. A. Hill to note.

Encl.  
8.5.05



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