

Engines made at Stockholm By whom made J. & G. S. Bolinders Co. Ltd. When made  
 Boilers made at Manitowoc By whom made Manitowoc Shipbuilding Co. When made

Report No. 1661



# Lloyd's Register of Shipping.

Stockholm, Surveyors' Office,

the 19<sup>th</sup> March, 1917.

## CERTIFICATE OF OIL ENGINES.

**This is to Certify** that

the undersigned Surveyor to Lloyd's Register, did at the request of

Messrs. J. & G. S. Bolinders Co. Ltd., Stockholm,  
 survey during construction a 320 B.H.P., two stroke cycle,  
 single acting oil Engine, having 4 cylinders 420<sup>mm</sup> diameter and  
480<sup>mm</sup> stroke designated No. 12448/51

This Engine and its accessories have been constructed and tested in accordance with the Society's Rules. It has been tested under full power in the shop and found to work satisfactorily.

For identification purposes the cylinders have been marked Nos. 12448, 12449, 12450, 12451. Lloyd's Test 529 lbs. 21.2.17 A

The starting air receiver has been marked:

Lloyd's Test 30 Atm.  
 Working pressure 15 Atm.  
 No. 2099 Item. 22.2.17 A

The injection air receiver has been marked:

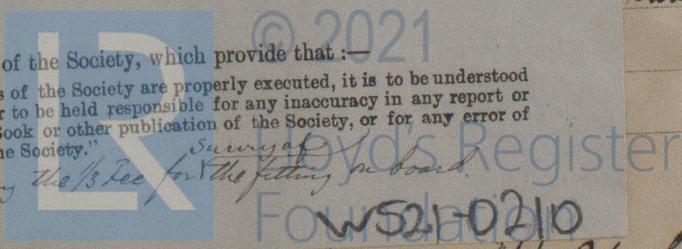
Lloyd's Test 60 Atm.  
 Working pressure 30 Atm.  
 No. 3000 Item. 22.2.17 A.

*A. Erikson*

Surveyor to Lloyd's Register.

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—  
 While the Committee use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Committee nor the Society are under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of omission, default, or negligence of the Surveyors, or other Officers or Agents of the Society.

*Fee for survey in shop only 11:6:2, post including the 1/3 fee for the fitting on board.*



*W. R. Howell*  
 Engineer Surveyor to L