



# BARCLAY CURLE & COY. LIMITED

ENGINEERS &amp; SHIPBUILDERS



## NORTH BRITISH ENGINE WORKS

739 SOUTH STREET WHITEINCH

GLASGOW. W. 4.

HEAD OFFICE:  
SHIPBUILDING YARD  
CLYDEHOLM WHITEINCH

LONDON OFFICE: 21 RUSSELL SQUARE W.C.1.  
LIVERPOOL OFFICE: ROYAL LIVER BUILDING

TELEGRAPHIC ADDRESS:  
QUADRUPLE GLASGOW

TELEPHONE NO. SCOTSTOWN 2261  
CODES: BENTLEYS AND A.B.C.

3.

ALL OFFERS MADE BY US AND ALL ORDERS ACCEPTED BY US ARE SUBJECT  
TO THE TERMS CONDITIONS AND LIMITATIONS SET OUT ON THE BACK HEREOF.

29th May, 1936.

Lloyd's Register of Shipping,  
95, Bothwell Street,  
Glasgow, C.2.

LLOYD'S REGISTER  
GLASGOW

30-MAY-1936

Gentlemen,

E.W. 109 & 110.

ANSR

Lithgows' Yard Nos. 898 & 899.

We have been instructed to build to your Survey, machinery for Messrs. The Hain Steamship Co. Ltd. for vessels building by Messrs. Lithgows Ltd., Port Glasgow under their above numbers, and we have pleasure in submitting, for your approval, the following sizes for the shafting.

The engines are to be Single Set of Barclay Curle-Doxford Opposed Piston Balanced Airless Injection Type each having three working cylinders 560 m/m diameter x 2160 m/m combined stroke, each set to develop 1890 maximum B.H.P. at about 99 r.p.m. and 89 lbs. per square inch M.I.P. As the flywheels to be fitted will be light, no allowance has been made for them in our calculations.

The sizes proposed are as under, but the tunnel shafts may be subject to increase if found necessary to avoid critical torsional vibrations.

Tunnel shaft diameter ... 12 $\frac{1}{4}$ "

Propeller shaft diameter... 13.11/16"

The propeller shaft will have a continuous brass liner  $\frac{3}{4}$ " thick and the diameter of the propeller will not exceed 16'-0".

Duplicate copies of the crankshaft drawing are enclosed.

The/

*W. Connors* *Q26*

Lloyd's Register  
Foundation

W224-0178  $\frac{1}{2}$



The soleplate columns and entablature are of our welded design similar to engines No. 658, and we assume that there will be no need to submit drawings to you of the details of the welding.

It should also be noted that several of these engines have been built by Messrs. William Doxford & Sons, Ltd., Sunderland, and have already received your Society's approval.

We are, Gentlemen,  
Yours faithfully,

FOR BARCLAY, CURLE & CO., LTD.

*James B. McKeel*  
ASSIST. GENERAL MANAGER ENGINE WORKS.



AM/MLW.

*amg*



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