

LLOYD'S REGISTER OF SHIPPING,

95, Bothwell Street, GLASGOW, C.2.

22nd November, 1943.

My dear Charles,

Messrs. Furness S.B. Co's Yard No.354.

S.S. "EMPIRE CHIEFTAIN".

I have your letter of the 18th, regarding the steering gear for the above vessels. This is of the Hele-Shaw Martineau Electric Hydraulic type with 4 rams and 2 pumping sets, each set being capable of putting the rudder from hard over to hard over in 30 seconds when the vessel is proceeding ahead at full speed. The rams and cylinders will be independent, and pressure will be applied simultaneously on both rams which operate the gear, thereby making it impossible for more than half the full load to come on each arm of the tiller (the tiller being of the two arm type). Relief valves will be fitted and will be set to blow off at the maximum working pressure.

It was established and approved many years ago that, as this arrangement provides two independent means of steering, it was not necessary to provide any further means of steering, Therefore the Surveyors' report is in order.

With kind regards,

Yours sincerely,

Sgd: *W. Potts*

C.A. Millar, Esq.,
WOKINGHAM.



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MR. J. H. BROWN, GENERAL MANAGER,

25, BATHURST STREET, GLASGOW, C.2.

22nd November, 1943.

My dear Sir,

Reference is made to your letter of the 11th inst.

re "NEWLY DESIGNED".

I have your letter of the 11th inst. regarding the
steering gear for the above vessel. This is of the
Bale-Spin Harrison Electric Hydraulic type with 4 rams and
2 pumping sets, each set being capable of putting the rudder
from hard over to hard over in 30 seconds when the vessel is
proceeding ahead at full speed. The rams and cylinders will
be independent, and pressure will be applied simultaneously
on both rams which operate the gear, thereby making it
impossible for more than half the full load to come on each
arm of the tiller (the tiller being of the two arm type).
Relief valves will be fitted and will be set to blow off at
the maximum working pressure.

It was established and approved many years ago that
an independent provides two independent means of steering.
It was not necessary to provide any further means of steering.
Therefore the Surveyors' report is in order.

With kind regards,

Yours sincerely,



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