

COPY

1.1 OCT 1952

## LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER



Port TORONTO, CANADA.

September, 22nd., 1952.

This is to Certify that

A. SHADE, Acting on behalf of

the undersigned Surveyor to this Society did at the request of Canada Foundries & Forgings Ltd., attend at their works at Welland, Ontario, on 21st August, 1952, for the purpose of examining and witnessing the testing of the undermentioned O.H. Steel forgings to order number 585 of Messrs. Kent Line Limited, St. John, New Brunswick.

Item 1. One Upper Rudder Stock 12' 8 $\frac{1}{2}$ " long x 5  $\frac{3}{4}$ " dia. x 1 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ " palm weighing 1350 lbs.

Item 2. One Lower Rudder Stock 12' 6" long x 4  $\frac{11}{16}$ " dia. x 1 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ " palm, weighing 1070 lbs.

Test pieces taken from the forgings were subjected to the tensile and bend tests prescribed by the Rules of this Society with satisfactory results. The results of tests were as follows:-

	Test No.	Heat No.	Lbs. per sq.in.		%Elongation	% Reduction of Area
			Yield	Ultimate		
Item 1.	G 414	2T392	51680	78080	30% in 2"	56%
Item 2.	G 415	"	44480	77400	30% in 2"	55%

Bend tests through 180 degrees without fracture.

The forgings were annealed and so far as could be seen were sound and free from defects.

The following marks were stamped on forgings for identification:

Item 1  
LLOYD'S 3910  
A.S. 21.8.52

Item 2.  
LLOYD'S 3911  
A.S. 21.8.52.

*R.D.J. Hall*  
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 Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is 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 judgment, default or negligence of any of its Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."