

# Lloyd's Register of Shipping



Port

VANCOUVER, B. C.

April 9th, 1943.

CERTIFICATE No. F-6332

## This is to Certify that

J. F. HIND

Acting

the undersigned/Surveyor to this Society did at the request of Vulcan Iron Works Limited, Winnipeg, Manitoba, attend their Works at Winnipeg, Manitoba, and at the Laboratory of the Manitoba University, Fort Garry, Manitoba, on March 18th, 1942, and subsequent dates for the purpose of witnessing the tests of a cast steel Baldt type stockless anchor head, shank, pins and shackle as manufactured by them for United Shipyards Limited, Bickerdike Basin, Montreal, Quebec.

### ANCHOR HEAD and SHANK

Drop Test - The Anchor Head and Shank after annealing, were each dropped from a clear height of 12 feet on to a steel slab, and were subsequently hammered while suspended, and gave no indication of defects.

Test Pieces - Satisfactory tensile and bend tests were made from test pieces cast and annealed with the Anchor Head and Shank with the following results:-

#### Tensile Tests -

	<u>Heat No.</u>	<u>Diam. Ins.</u>	<u>Sec. Area Sq. Ins.</u>	<u>Tensility Tons/Sq. In.</u>	<u>Elong. % on 2"</u>	<u>Weight in Lbs.</u>
Head	B-1936	.564	.250	32.3	31	5640
Shank	B-2915	.561	.247	29.8	35	1838

Bend Tests - Specimens, each 8" long by 1" diameter, one from the Anchor Head and one from the Anchor Shank, were bent cold by hammering through an angle of 90° over a radius of 1-1/2" without any sign of flaw or fracture.

(Continuation-Sheet2)

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."

ANCHOR CROWN PIN      ANCHOR SHACKLE      and      ANCHOR SHACKLE PIN

Test Pieces - Tensile and Bend test pieces from the Anchor Crown Pin, Anchor Shackle and Anchor Shackle Pin materials were prepared with the following results:-

Tensile Tests -

	Diam. Ins.	Sec. Area Sq. Ins.	Tensility Tons/Sq. In.	Elong. % on 2"	Weight in Lbs.
Crown Pin	.564	.250	29.2	33	80
Shackle	.564	.250	28.8	37	170
Shackle Pin	.564	.250	29.2	33	40

Bend Tests - Bend test specimens 1" wide by 3/4" thick taken from the Anchor Shackle, Anchor Crown Pin and Anchor Shackle Pin materials withstood without fracture, being bent cold through an angle of 180°, the internal radius of bend being not greater than 1/4".

Anchor Markings - On completion of the above tests the Anchor Head and Shank were stamped as follows:-

On Fluke of Head

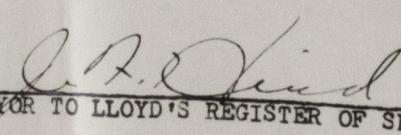
L. R.  
5640  
J.F.H. F-6332  
15/3/43

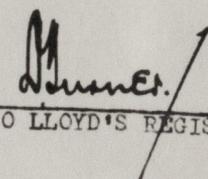
On Shank

L. R.  
1838  
J.F.H. F-6332  
6/4/43

Both items were marked "ANNEALED STEEL" and the total weight of the Anchor (7768 lbs.) was typed on the Shank.

In view of the satisfactory nature of the above tests it is recommended that this Anchor be accepted for use in ships classed with the Society, subject to a suitable notation on account of the Statutory Tests not having been made.

  
ACTING SURVEYOR TO LLOYD'S REGISTER OF SHIPPING

  
SURVEYOR TO LLOYD'S REGISTER OF SHIPPING



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