



# Lloyd's Register of Shipping.

95, Bothwell Street, Glasgow, C.2.

13th December, 1937

Reference

Dear Sir,

S.S. "IRENE MARIA"

As requested in the Secretary's (London) letter of the 16th November, I beg to submit herewith the analytical results of the samples of calcinated soda added to the boilers of the above vessel and of the ball of salt taken from the edge of an outer butt strap of the starboard boiler.

The difficulty, mentioned by the analyst, of coming to a definite conclusion from the chemical analyses in respect of the chemical embrittlement of the material applies also to the metallurgical investigation of the sample of fractured wrapper plate submitted. While the fractures in the material of the necks between adjacent rivet holes were indicative of such embrittlement no evidence was found of intercrystalline cracking of the material around the rivet holes. In view of the experience in connection with the

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