

# KNIGHT & CHAPMAN,

CONSULTING & ANALYTICAL CHEMISTS.  
ASSAYERS.

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R. KNIGHT, F.I.C.  
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Messrs. Lloyd's Register of Shipping  
71 Fenchurch Street,  
London, E.C.3.

29th November 1937.



Your Ref. E.

Dear Sirs,

In accordance with your instructions of the 24th of November we have analysed the sample of Boiler Water, marked s.s. "IRENE MARIA" received from you on the same date and now report as follows:-

Parts / 100,000.

SUSPENDED MATTER ..... 2.65.

In the filtered water:-

SILICA .(SiO <sub>2</sub> ) .....	0.24
Calcium Oxide ..(CaO) .....	11.96
MAGNESIUM OXIDE..(MgO) .....	0.32
SODIUM OXIDE..(Na <sub>2</sub> O) .....	733.80
SULPHURIC ANHYDRIDE..(SO <sub>3</sub> ) ...	104.55
CARBONIC ANHYDRIDE ..(CO <sub>2</sub> ) ...	6.60
CHLORINE ..(Cl) .....	751.80
NITRATES .....	Nil
NITRITES .....	Nil
ORGANIC & VOLATILE MATTER ...	20.60

From these data we compute the Water to contain:-  
Parts /100,000.Grains / Gallon.

SODIUM CARBONATE.(Na <sub>2</sub> CO <sub>3</sub> )	15.90	11.13
SODIUM SULPHATE.(Na <sub>2</sub> SO <sub>4</sub> )	185.60	129.92
SODIUM CHLORIDE .(NaCl)	1213.50	853.58
CALCIUM CHLORIDE .(CaCl)	23.74	16.62
MAGNESIUM CHLORIDE.(MgCl <sub>2</sub> )	0.75	0.52
ORGANIC & VOLATILE MATTER	<del>17.60</del> 20.6	<del>9.10</del> 14.42

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Yours faithfully,

For KNIGHT & CHAPMAN.

*Dr. Lamb  
Dr. Heph.*

*Herby & Knight*



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Foundation

W401-0181



Referred to the Chief Engineer Surveyor

*Handwritten signature*

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Special Damage or  
Travelling expenses  
(per Sec)

Tonnage