

**LLOYD'S REGISTER OF SHIPPING
17 BATTERY PLACE**

NEW YORK

November 18th, 1941

F. Chapman, Esq.

CURACAO.

Dear Sir: T.S. M.V. "ST. EUSTATIUS"

In reply to your letter of 28th October forwarding machinery entry report for the above vessel, I have to say that with 2 SCSA oil engines of the hot-bulb type having 2 cylinders 16 $\frac{1}{2}$ " dia. by 7 $\frac{7}{8}$ " stroke, span of bearings 19-9/16", mean indicated pressure 42 lbs. per square inch, weight and diameter of flywheel 1956 lbs. and 36 $\frac{1}{2}$ " respectively, propeller 5' 7", and each engine developing 160 brake horse power at 225 revolutions per minute, the following sizes of shafting are the requirements of the Rules:-

Thrust Shaft 5-29/32"
Screw Shaft 5-3/4" (no liner)

With regard to the crankshaft, the diameter of the journals, 6 $\frac{1}{4}$ ", is somewhat less than would be required by the Society's Rules, as such as could be accepted. Further, the Rules require that the diameter of the flywheel shaft shall be not less than that required by the Rules. In the present instance the diameter reported, viz, 4-11/16", is considerably less than that required by the Rules, and I include that the flywheel is fitted at the forward end of the engine on extension 4-11/16" diameter, shown on the plan of crankshaft. I will be glad if you will confirm this.

The above sizes have been calculated on the assumption that the maximum pressure in the cylinders does not exceed 300 lbs. per square inch, and I shall be glad if you will confirm this.

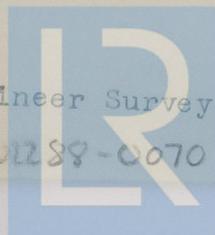
With regard to the proposed alterations to the pumping arrangements, the sketch forwarded with your letter has been examined, and the arrangements are considered satisfactory provided the remaining requirements of sections 20 and 34 of the Rules be complied with so far as they are applicable, and the work be carried out as shown and amended on the plan to our entire satisfaction.

A copy of your sketch, with amendments in red, is being returned with for your guidance.

Yours faithfully,

Principal Engineer Surveyor.

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Foundation