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Lloyd's Register of Shipping,

71, Fenchurch Street, E.C.3.

24th June, 1937.

Dear Sirs,

E. I duly received your letter of the 17th instant, with plan, in duplicate, advised therein, relating to Vulcan Gear K.165 proposed by Messrs. Deschimag Werk A.G. "Weser" for s.s. "OCEAN" building by Messrs. J. & K. Smit's Machinefabrieken N.V., Kinderdijk.

With regard thereto I have to inform you that, with two 4 SCSA heavy oil engines for main propelling purposes, each engine having 6 cylinders, diameter 365 mm. by 550 mm. stroke, and developing 650 B.H.P. at 300 R.P.M, connected through two Vulcan hydraulic couplings and single reduction gearing to one line of intermediate shafting running at 115 R.P.M. and transmitting a maximum S.H.P. of 1240, the following sizes of shafting will be approved, viz:-

Hydraulic coupling	230 mm.
Pinion	250 mm. with 140 mm. central hole.
Main wheel	250 mm. reduced to 240 mm. aft of bearing.

The plan showing arrangement and details of couplings and gearing, as shown and amended, will also be approved, provided the couplings and gearing be constructed under the usual conditions of survey and testing.

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M.V. "OCEAN".

It is concluded that the Standard Steel 42.11 mentioned in your letter, of which are made the primary shafts "A" and the wheel shaft "B" on the plan, will have a tensile strength of 28-32 tons per sq. inch, the sum of the tensile strength and percentage of elongation on the Society's Standard Test Piece being not less than 57. I shall be glad, however, to receive confirmation on this point.

It is noted that the pinion shafts "C" on the plan will be made from steel having a tensile strength of 65-70 Kgs. per sq. mm. with an elongation of 18% on a gauge length of 10 diameters, and this is in order.

One copy of the plan is being returned to you under separate cover.

I am, Dear Sirs,

Yours faithfully,

Secretary.

The Surveyors,
BREMEN.



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Foundation

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