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Lloyd's Register of Shipping.

71, Fenchurch Street, E.C.3.

13th October 1936.

Dear Sirs,

E. I duly received your letter of the 6th instant, with plans advised therein, respecting crank shafting proposed for the vessels mentioned below, and with regard thereto I have to inform you as follows:-

Deutsche Werft Yard Nos. 198, 199 & 200.
M.A.N. Engines Nos. 691300/310/320.

With 2SCDA heavy oil engines for main propelling purposes and open sea service, having 7 cylinders, 600 mm. diameter by 1100 mm. stroke, span of bearings 865 mm. revs. per min. 110, maximum pressure in cylinders 45 kg. per sq. cm., M.I.P. 5.3 kg. per sq. cm., B.H.P. 4500, the following sizes of shafting will be approved, viz:-

Crank - 440 mm. diameter with 72 mm. central hole:
 Flywheel - 440 mm. diameter:
 Scavenge pump crank - 250 mm. diameter with 72 mm. central hole.

Deutsche Werft Yard No. 175.
MAN. Engine No. 691290.

With 2SCDA heavy oil engines for main propelling purposes and open sea service, having 6 cylinders, 600 mm. diameter by 1100 mm. stroke, span of bearings 885 mm., revs. per min. 116, maximum pressure in cylinders 45 kg. per sq. cm., M.I.P. 5.3 kg. per sq. cm., B.H.P. 4100, the following

Deutsche Werft No. 175 **COPY.**

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sizes of shafting will be approved, viz:-

Crank - 420 mm. diameter with 72 mm. central hole:
 Flywheel - 420 mm. diameter:
 Scavenge pump crank - 250 mm. diameter with 72 mm.
 central hole.

Deutsche Werft Yard No. 205.
M.A.N. Engine No. 691340.

With 2SCDA heavy oil engines for main propelling purposes and open sea service, having 7 cylinders, 600 mm. diameter by 1100 mm. stroke, span of bearings 864 mm. revs. per min. 110, maximum pressure in cylinders 45 kg. per sq. cm., M.I.P. 5.3 kg. per sq. cm., B.H.P. 4500, weight of flywheel 3120 kg., diameter of flywheel 2100 mm., the following sizes of shafting will be approved, viz:-

Crank - 440 mm. diameter with 72 mm. diameter
 central hole:
 Flywheel - 440 mm. diameter:
 Scavenge pump crank - 250 mm. diameter with 72 mm. dia.
 central hole

The International S.B. & E. Co's Yard Nos. 77 & 78.
M.A.N. Engines Nos. 691370/380.

With 2SCDA heavy oil engines for main propelling purposes and open sea service, having 6 cylinders, 600 mm. diameter by 900 mm. stroke, span of bearings 885 mm. revs. per min. 140, maximum pressure in cylinders 45 kg. per sq. cm., M.I.P. 5.3 kg. per sq. cm., B.H.P. 3950, the following sizes of shafting will be approved, viz:-

Crank - 420 mm. dia. with 72mm. central hole:
 Flywheel- 420 mm. diameter:
 Scavenge pump crank - 250 mm. dia. with 72 mm.
 central hole.

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Camper & Nicholson's Yard No. 446.
M.A.N. Engine No. 580200/210.

With 4SCSA heavy oil engines for main propelling purposes and open sea service, having 6 cylinders, 365 mm. diameter by 550 mm. stroke, span of bearings 452 mm. revs. per min. 300, maximum pressure in cylinders 50 kg. per sq. cm., M.I.P. 6.96 kg. per sq. cm., B.H.P. 655, the following sizes of crank shaft will be approved, viz:- 220 mm. diameter.

John I. Thornycroft's Yard No. 1172.
M.A.N. Engine No. 501070/080.

With 4SCSA heavy oil engines for main propelling purposes and open sea service, having 6 cylinders, 220 mm. diameter by 330 mm. stroke, span of bearings 258 mm. revs. per min. 325, maximum pressure in cylinders 49 kg. per sq. cm., M.I.P. 6.9 kg. per sq. cm., B.H.P. 150, the following size of crank shaft will be approved, viz:- 130 mm. diameter.

I have to add that the plans showing details of shafting will also be approved and one set of these plans is being returned to you under separate cover.

I am, Dear Sirs,

Yours faithfully,

The Surveyors,
AUGSBURG.

Secretary.

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