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Lloyd's Register of Shipping,

71, Fenchurch Street, E.C.3.

25th August, 1937.

Dear Sirs,

E.

I duly received your letter of the 16th instant, with plans advised therein, of crankshafts proposed by Messrs. Maschinenfabrik Augsburg-Nurnberg, Augsburg, for various types of main and auxiliary oil engines.

The plans have been examined and I have to inform you as follows:-

Engine No.520400-420 for Messrs. Deschimag, Bremen, Yard No.951.

With 4 SCSA oil engines for driving auxiliary machinery, having 6 cylinders, diameter 285 mm., stroke 420 mm., span of bearings 352 mm., maximum pressure in cylinders 50 Kgs per sq. cm., M.I.P. 6.8 Kgs per sq. cm., B.H.P. 300, and revolutions per minute 360, the following size of crankshaft will be approved, viz:- 170 mm. diameter.

The plan No.D.111786 showing details of crankshaft will also be approved.

Engine No.512790-820 for Messrs. Wilton Fijenoord, Schiedam.

With 4 SCSA oil engines for driving auxiliary machinery, having 6 cylinders, diameter 285 mm., stroke 420 mm., span of bearings 352 mm., maximum pressure in cylinders 50 Kgs per sq. cm., M.I.P. 6.8 Kgs per sq. cm., B.H.P. 360, and revolutions per minute 360, the following size of crankshaft

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will be approved, viz:- 170 mm. diameter.

The plan No.D.111786 showing details of crankshaft will also be approved.

Engine Nos.341910/920 for Messrs.N.V.J. & K. Smith's Kinderdijk

With 4 SCSA oil engines for driving auxiliary machinery, having 3 cylinders, diameter 175 mm., stroke 220 mm., span of bearings 202 mm., maximum pressure in cylinders 48 Kgs per sq. cm., M.I.P. 6.8 Kgs per sq. cm., B.H.P. 75, and revolutions per minute 750, the following size of crankshaft will be approved, viz:- 105 mm. diameter.

The plan No.D.102724 showing details of crankshaft will also be approved.

Engine No.681560-590 for Messrs. Deutsche Werft's Yard Nos.227/8.

With 2 SCSA oil engines for main propelling purposes, having 8 cylinders, diameter 520 mm., stroke 900 mm., span of bearings 680 mm., revolutions per minute 166, maximum pressure in cylinders 45 Kgs per sq. cm., M.I.P. 5.5 Kgs per sq. cm., B.H.P. 2550, the following size of crankshaft will be approved, viz:- 350 mm. diameter.

The plan No.D.114600 showing details of crankshaft will also be approved.

Engine No.691560-70 for Messrs.Deutsche Werft's Yard Nos. 224/5.

With 2 SCDA oil engines for main propelling purposes, having 6 cylinders, diameter 600 mm., stroke 1100 mm., span of bearings 885 mm., revolutions per minute 116, maximum

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Augsburg-Nurnberg.

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pressure in cylinders 45 Kgs per sq. cm., M.I.P. 5.3 Kgs per sq. cm., and B.H.P. 4100, the following sizes of shafting will be approved, viz:-

Crank..... 420 mm. diameter.
Scavenge pump crank..... 250 mm. diameter.

The plans showing details of shafting will also be approved.

Engine No.510850 for Messrs. De Haan & Oerlemann, Heusden.

With 4 SCSA oil engines for main propelling purposes, having 7 cylinders, diameter 285 mm., stroke 420 mm., span of bearings 352 mm., revolutions per minute 300, maximum pressure in cylinders 50 Kgs per sq. cm., M.I.P. 7 Kgs per sq. cm., B.H.P. 350, weight of flywheel 1100 Kgs, and diameter of flywheel 1200 mm., the following sizes of shafting will be approved, viz:-

Crank..... 170 mm. diameter.
Flywheel..... 160 mm. diameter.
Thrust..... 150 mm. diameter.

The plans Nos.D.111726 and D.212185 showing details of shafting will also be approved.

Engine Type W6V22/30.

With 4 SCSA oil engines for main propelling purposes, having 6 cylinders, diameter 220 mm., stroke 300 mm., span of bearings 249 mm., revolutions per minute 870, maximum pressure in cylinders 55 Kgs per sq. cm., M.I.P. 7.3 Kgs per sq. cm., and B.H.P. 360, the following sizes of crankshaft will be

approved, viz:- Journals... 150 mm. diameter.
Pins..... 150 mm. dia. with 95mm central hole.

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The plan showing details of the crankshaft will also be approved, and it is noted that the minimum ultimate tensile strength of the steel for this crankshaft is 80 Kgs per sq. mm.

I have to add that with engines having particulars as stated above, but having maximum pressure 58 Kgs per sq. cm., M.I.P. 10.4 Kgs per sq. cm., and developing 505 B.H.P. at 870 revolutions per minute, the plan of crankshaft will be approved provided the thickness of the webs be not less than 67 mm., or alternatively, the width be not less than 260 mm.

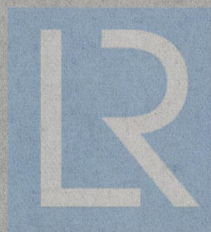
One set of the plans now approved is being returned to you under separate cover.

I am, Dear Sirs,

Yours faithfully,

Secretary.

The Surveyors,
AUGSBURG.



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