

COPY.

Lloyd's Register of Shipping,

71, Fenchurch Street, E.C. 3.

Enclosures.

30th November, 1938.

Dear Sirs,

E. I duly received your letter of the 19th instant, with plans, in duplicate, advised therein, relating to two "RA3" type Heavy Oil Engines proposed by Messrs. National Gas & Oil Engine Co. Ltd., for The Sunderland Forge & Engineering Co., and intended for a vessel being built by Messrs. J.L. Thompson & Sons Ltd.

The plans have been examined and I have to inform you that with 4 SCSA oil engines for driving auxiliary machinery, having 3 cylinders, diameter 8", stroke 12", span of bearings 10.1/8", maximum pressure in cylinders 700 lb. per sq. inch, B.H.P. 110, and revolutions per minute 500, the following sizes of crankshaft will be approved, viz:-

Pins..... 5.1/2" diameter.
Journals..... 5.5/8" diameter.

The following plans will also be approved as shown and amended:-

No.38-34	-	Crankshaft.
18-4	-	Column.
30-66	-	Cylinder Head.
20-4	-	Main Bearings & Caps.
38-2	-	Piston and Liner.
16-60	-	Connecting Rod.
53-6	-	Fuel Service Tank.

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Massrs. National Gas & Oil Engine Co.Ltd.
Engine Type "RA3".

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I may add that the plan of riveted
air receiver will be approved for a working pressure of
275 lb. per sq. inch, provided the air receiver be
constructed under the usual conditions of survey and
testing.

One set of the plans now approved is
returned herewith.

I am, Dear Sirs,

Yours faithfully,

Secretary.

The Surveyors,
MANCHESTER.

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