

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 194

Received at London Office 6 - JUN 1947

of writing Report 19 When handed in at Local Office 16. 10. 19 48. Port of NOTTINGHAM.

of opening of Book. Survey held at Lincoln Date, First Survey Last Survey 19

on the Single Triple Quadruple Screw vessel Not Known Stm. Trawler "SLETNES" (ex "P.V. 6111") Number of Visits

at Hamburg. By whom built Nordwerft Kaser U. Meyer. Yard No. - When built 1940

ers. RENOVIA STEAM FISHING CO. LTD., Grimsby. Port belonging to GRIMSBY.

diameter Engines made at Lincoln By whom made Ruston & Hornsby Ltd. Contract No. 453399. When made 1947

generators made at Manchester By whom made Laurence Scott & Electromotors Ltd., Contract No. 82030 When made 1947

les and pi of Sets 1 Engine Brake Horse Power 10 ✓ M.N. as per Rule 2.5 ✓ Total Capacity of Generators 6 Kilowatts.

Set intended for essential services.

L ENGINES, &c.—Type of Engines 2VTHZ. No. 244928. 2 or 4 stroke cycle 4 ✓ Single or double acting SA

imum pressure in cylinders 850 lbs. ✓ Diameter of cylinders 4" ✓ Length of stroke 4" ✓ No. of cylinders 2 ✓ No. of cranks 2 ✓

an indicated pressure 98.5 lb. ✓ Firing order in cylinders 1 - 2 ✓ Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4.7/8" ✓

there a bearing between each crank Yes ✓ WD<sup>2</sup> total for 2 wheels 706 lb.ft.<sup>2</sup> ✓

wheel dia. 2 x 19 1/2" ✓ Weight 426 lbs. ✓ Means of ignition Compression. Kind of fuel used Diesel Oil.

ank Shaft, dia. of journals as per Rule Stand. App'd. 2 1/8" ✓ Crank pin dia. 2 1/2" ✓ Crank Webs Mid. length breadth 3 1/2" ✓ Mid. length thickness 1 1/2" ✓ Thickness parallel to axis - Thickness round eye hole -

rain cocks wheel Shaft, diameter as per Rule C' shaft. Intermediate Shafts, diameter as per Rule - General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) -

means provided to prevent racing of the engine when declutched Yes ✓ Means of lubrication Forced. Kind of damper if fitted -

the cylinders fitted with safety valves No ✓ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged.

oling Water Pumps, No. - Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

abricating Oil Pumps, No. and size One - 150 gals. per hour. Engine driven.

Yes. r Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

avenging Air Pumps, No. - Diameter - Stroke - Driven by -

R RECEIVERS:—Have they been made under Survey - State No. of Report or Certificate -

each receiver, which can be isolated, fitted with a safety valve as per Rule -

n the internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -

there a drain arrangement fitted at the lowest part of each receiver -

gh Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

unless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

rting Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -

unless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ELECTRIC GENERATORS:—Type S.P.D.P. Continuous Rating. Machine No. 150319.

essure of supply 110 volts. Full Load Current 54.6 Amperes. Direct or Alternating Current D.C.

alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown and off Yes Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field.

e all terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced

shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

the generators are under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements Yes

the generators are 100 kw. or over have they been built and tested under survey -

tails of driven machinery other than generator -

ANS.—Are approved plans forwarded herewith for Shafting Standard App'd. Receivers. Separate Tanks.

(If not, state date of approval)

ve Torsional Vibration characteristics if applicable been approved. Armature shaft Drawing No.

(state date of approval)

ARE GEAR:- 1 each Inlet and Exhaust Valves complete with inner and outer valve spring,

staining collar, cone and stem cap. 1 - Atomiser needle valve and guide. 3 - Piston pressure rings

d Scraper ring. 4 - Cylinder head studs and nuts. 1 - Gudgeon Pin. 2 - Connecting rod L.E. bolts

d nuts. 1- Connecting rod L.E. bearing. 1-Connecting rod S.E. bush. Complete set of working parts

r fuel pump.

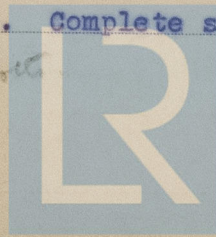
The foregoing is a correct description,

Ruston &amp; Hornsby, Limited.

Manufacturer.

Hsaw

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Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - }  
Total No. of visits

Dates of Examination of principal parts—Cylinders 21.4.46. Covers 21.4.46. Pistons 21.4.46. Piston rods -  
Connecting rods 21.4.46. Crank and Flywheel shafts 21.4.46. Intermediate shafts -

Crank shaft { Material Steel. Tensile strength 40/45 Tons/sq.in.  
Elongation . Identification Marks LL.420 TDS. RD.4366.

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case. Yes If so, state name of vessel Standard Type.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This engine has been built under Special Survey, in accordance with the Approved Plans and the Rules of this Society, the material and workmanship being good.

On completion the generating set was tried in the shops under working conditions and found to be satisfactory.

This generating set has been forwarded to Grimsby for installation on board the Vessel.

This generating set has now been fitted on the Trawler "SLETNES" (ex "P.V.6111"), examined under full working conditions and found satisfactory.

E. V. A. u. x + W. P. W. a. t. e. o. n.

The amount of Fee... £ 4 : 0 : 0 When applied for 5-6-1947.

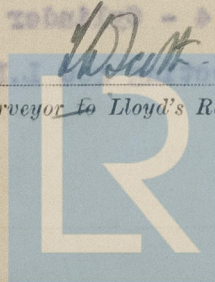
Travelling Expenses (if any) £ When received 19

Committee's Minute

Assigned

FRI. 19 NOV 1948

Surveyor to Lloyd's Register of Shipping.



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