

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.
Survey held at Lincoln Date, First Survey Last Survey 19
Screw vessel Not Known Stm. Trawler "SLETNES" (ex "P.V. 6111") Number of Visits
Hamburg. By whom built Nordwerft Koser U. Meyer. Yard No. - When built 1940
RINOVIA STEAM FISHING CO. LTD., Grimsby. Port belonging to GRIMSBY.
Engines made at Lincoln By whom made Buston & 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
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
Maximum pressure in cylinders 850 lbs. ✓ Diameter of cylinders 4" ✓ Length of stroke 4" ✓ No. of cylinders 2 ✓ No. of cranks 2 ✓
Indicated pressure 98.5 ✓ 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 ✓ WD² total for 2 wheels Moment of inertia of flywheel (16 m² or Kg.-cm.²) 706 lb.ft.² ✓ Revolutions per minute 1000 ✓
Wheel dia. 2 x 19 1/2" ✓ Weight 426 lbs. ✓ Means of ignition Compression. Kind of fuel used Diesel Oil.
Crank Shaft, dia. of journals as per Rule Stand. App'd. Crank pin dia. 2 1/2" ✓ Crank Webs Mid. length breadth 3 3/8" ✓ Thickness parallel to axis -
Mid. length thickness 1 1/2" ✓ Thickness round eye-hole -
Crank Shaft, diameter as per Rule C' shaft. Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)
Means provided to prevent racing of the engine when declutched Yes ✓ Means of lubrication Forced. Kind of damper if fitted -
Are the cylinders fitted with safety valves No ✓ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged.
Lubricating Water Pumps, No. - Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.
Lubricating Oil Pumps, No. and size One - 150 gals. per hour. Engine driven.

Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
Suctioning Air Pumps, No. - Diameter - Stroke - Driven by -

AIR 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 -
Can the internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -
Is there a drain arrangement fitted at the lowest part of each receiver -

High 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 -
Suctioning 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.
Voltage of supply 110 volts. Full Load Current 54.6 Amperes. Direct or Alternating Current D.C.
Is the automatic 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 Yes
Are 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
If 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
If the generators are 100 kw. or over have they been built and tested under survey -
List tails of driven machinery other than generator -

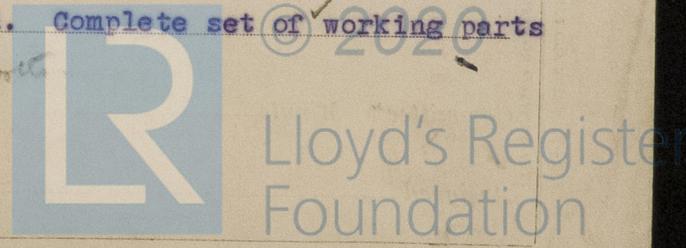
APPROVALS:—Are approved plans forwarded herewith for Shafting Standard App'd. Receivers Separate Tanks
Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.

SPARE GEAR:— 1 each Inlet and Exhaust Valves complete with inner and outer valve spring, retaining collar, cone and stem cap. 1 - Atomiser needle valve and guide. 3 - Piston pressure rings and scraper ring. 4 - Cylinder head studs and nuts. 1 - Gudgeon Pin. 2 - Connecting rod L.E. bolts and nuts. 1 - Connecting rod L.E. bearing. 1 - Connecting rod S.E. bush. Complete set of working parts for fuel pump.

The foregoing is a correct description,
Buston & Hornsby, Limited.

Manufacturer.

H. S. A. S. 2 VI 47



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. Daux & W. P. Watson

101.8.46-T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

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

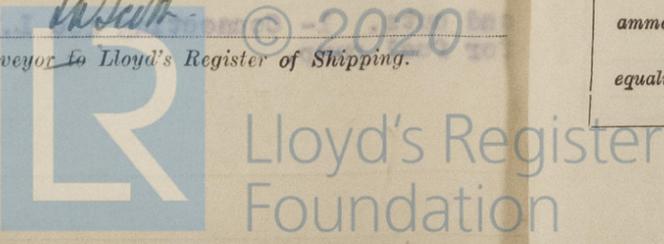
Travelling Expenses (if any) £ When received 19

FRI. 19 NOV 1948

Committee's Minute

Assigned

W. Dault
 Surveyor to Lloyd's Register of Shipping.



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