

Lon. 12494/



REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18601

Rpt. 4c.

Received at London Office

Date of writing Report 28th Jan. 19 52 When handed in at Local Office 28th Jan 52 Port of BRI STOL

No. in Survey held at Dursley, Glos. Date, First Survey 11th December, 51 Last Survey 25th January 19 52
Reg. Book. Number of Visits 3

Single on the Twin Triple Quadruple Screw vessel M.S. "KINGFISHER C" Tons } Gross.....
Net.....

Built at Wivenhoe By whom built J. W. Book & Co. Ltd. Yard No. 1048 When built.....
Owners..... Port belonging to.....

Oil Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd Engine No. 392855 When made 1952
Generators made at..... By whom made..... Generator No..... When made.....

No. of Sets..... B.H.P. of each Set 14 M.N. as per Rule..... Capacity of each Generator..... Kilowatts.
s Set intended for essential services.....

OIL ENGINES, &c.—Type of Engines heavy oil, airless injection CEM 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 800lbs Diameter of cylinders 4 1/8" Length of stroke 4 5/8" No. of cylinders 2 No. of cranks 2
Mean indicated pressure..... Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 4.11/16"

Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²)..... Revolutions per minute 1000
Flywheel dia. 23" Weight 350lbs Means of ignition compression Kind of fuel used heavy oil

Crank Shaft, { Solid forged as per Rule..... dia. of journals 2 5/8" Crank pin dia. 2 3/4" Crank Webs { Mid. length breadth 3 1/2" Thickness parallel to axis.....
Semi-built dia. of journals as fitted..... Crank pin dia. 2 3/4" Crank Webs { Mid. length thickness 1 1/8" shrunk Thickness round eye-hole.....
All-built as fitted.....

Flywheel Shaft, diameter as per Rule..... Generator armature, moment of inertia (16 m² or Kg.-cm.²).....
as fitted.....

Are means provided to prevent racing of the engine..... Yes Means of lubrication..... Forced Kind of damper if fitted.....

Are the cylinders fitted with safety valves..... Are the exhaust pipes and silencers water cooled ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ Yes

Cooling Water Pumps, No. and how driven..... Is the sea suction provided with an efficient strainer which can be cleared within the vessel.....

Lubricating Oil Pumps, No. and size.....

Air Compressors, No..... No. of stages..... Diameters..... Stroke..... Driven by.....

Scavenging Air Pumps or Blowers, No..... How driven.....

AIR RECEIVERS:—Have they been made under Survey..... State No. of Report or Certificate.....
(other than main engines)
State full details of safety devices.....

Can the internal surfaces of the receivers be examined and cleaned.....
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.....
Seamless, lap welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

Starting Air Receivers, No..... Total cubic capacity..... Internal diameter..... thickness.....
Seamless, lap welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

ELECTRIC GENERATORS:—Type.....
Pressure of supply..... volts. Full Load Current..... Amperes. Direct or Alternating Current.....

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

Are all terminals accessible, clearly marked, and furnished with sockets..... Are they so spaced
or shielded that they cannot be accidentally earthed, short circuited, or touched..... Are the lubricating arrangements of the generators as per Rule.....

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test..... and do the results comply with the requirements.....
If the generators are 100 kw. or over have they been built and tested under survey.....

Details of driven machinery other than generator.....

PLANS.—Are approved plans forwarded herewith for Shafting..... Receivers..... Separate Tanks.....
(If not, state date of approval)

Have Torsional Vibration characteristics if applicable been approved..... Armature shaft Drawing No.....
(State date of approval and name of previous duplicate case, if any)

Has the spare gear required by the Rules been supplied.....

The foregoing is a correct description,
P.P. R. A. LISTER (MARINE SALES) LTD. Manufacturer.



008008-008019-0181

Handwritten notes: 26/2/52

Dates of Survey while building { During progress of work in shops - - 11.12.51 8.1.52 25.1.52
 During erection on board vessel - - -
 Total No. of visits 3

Dates of Examination of principal parts—Cylinders 8.1.52 Covers 8.1.52 Pistons 8.1.52 Piston rods - -

Connecting rods 8.1.52 Crank and Flywheel shafts 11.12.51 Intermediate shafts - -

Crank shaft { Material Steel Tensile strength 43.38 tons
 Elongation 29% Identification Marks Lloyd's 135

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.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Auxiliary Oil Engine has been built under Special Survey. Water jackets tested with hydraulic pressure 100 lbs. per square inch and found sound and tight. The workmanship and materials have been found good. Crankshaft taken from Makers' stock, test pieces proved satisfactory. After assembly the engine examined during a full load test bed running trial of several hours duration; governor examined and found satisfactory.

Identification Mark M.3542. Engine made to the order of Messrs. Woodward.

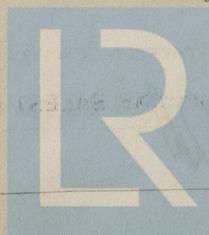
301,551.—T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 5 : 0 : 0 { When applied for 19
 Travelling Expenses (if any) £ 1 : 0 : 0 { When received 19

FRI, 1 AUG 1952

Committee's Minute
 Assigned *No Action || see J.C. Rpt.*

Surveyor to Lloyd's Register of Shipping.



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