

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 824.

Received at London Office

21 OCT 1952

of writing Report 13-10-1952 When handed in at Local Office 20-10-1952 Port of LEEDS.

in Survey held at WAKEFIELD. Date, First Survey 18-9-52. Last Survey 29-9-1952.

Book. Single on the Twin Triple Quadruple Screw vessel M. TANKER "MADELINE" Number of Visits 4 Tons { Gross. Net. }

at Landskrona. By whom built Oresundsvarvet Aktiebolag Yard No. 126 When built -

Messrs. Aktiebolaget Gustaf Terling Port belonging to -

Engines made at Wakefield. By whom made Pelapone Engines Ltd. Engine Contract No. 11779 When made 1952.

Generators made at - By whom made - Contract No. - When made -

of Sets 1 Engine Brake Horse Power 33 M.N. as per Rule 7 Total Capacity of Generators - Kilowatts.

et intended for essential services -

ENGINES, &c.—Type of Engines Type 53. 2 or 4 stroke cycle 4 Single or double acting S.A.

imum pressure in cylinders 850 lbs/sq" Diameter of cylinders 4 7/16" Length of stroke 6" No. of cylinders 3 No. of cranks 3

plan indicated 85.5 lbs/sq" ing order in cylinders 1, 3, 2. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 11"

ere a bearing between each crank No Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 1100

wheel dia - Weight - Means of ignition Compression Kind of fuel used Heavy Oil

ank Shaft, dia. of journals as per Rule approved as fitted 3 1/8" & 3 1/4" Crank pin dia 2 7/8" Crank Webs Mid. length breadth 4 3/8" Thickness parallel to axis - shrunk Mid. length thickness 1 1/2" Thickness round eyehole -

wheel Shaft, diameter as per Rule - 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 - to be lagged

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

ing Water Pumps, No One Pelapone - Built in Type Is the sea suction provided with an efficient strainer which can be cleared within the vessel

ricating Oil Pumps, No. and size One Gear Type

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

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

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

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

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

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

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

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

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

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

ELECTRIC GENERATORS:—Type -

sure of supply - volts. Full Load Current - Amperes. Direct or Alternating Current -

ternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

nd off - Generators, are they compounded as per Rule - is an adjustable regulating resistance fitted in series with each shunt field -

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

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

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

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

ls of driven machinery other than generator -

NS.—Are approved plans forwarded herewith for Shafting 1-1-52 Receivers - Separate Tanks -

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

RE GEAR As per Rule Requirements.

The foregoing is a correct description,

PELAPONE ENGINE LTD
LLOYD'S REGISTER
WAKEFIELD

Manufacturer.



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Lloyd's Register
Foundation

01323 4013242-0288

4C. 624.

Dates of Survey while building { During progress of work in shops - - 18-9-52, 22-9-52, 26-9-52, 29-9-52.
During erection on board vessel - - -
Total No. of visits 4

Dates of Examination of principal parts—Cylinders 18-9-52 Covers 18-9-52 Pistons 22-9-52 Piston rods -
Connecting rods 22-9-52 Crank and Flywheel shafts 22-9-52 Intermediate shafts -

Crank shaft { Material Steel Tensile strength 35/45 tons/sq. in.
Elongation Not less than 22% Identification Marks L.R. J. 5823. W.H. 18-9-52.

Flywheel shaft, Material Identification Marks -

Engine Bedplate.
Identification marks on Air Receiver LLOYD'S
Engine No. 11779
29-9-52. T.P.G.

Is this machinery duplicate of a previous case - If so, state name of vessel -

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

This engine has been constructed under Special Survey of tested materials in accordance with the approved plans, Secretary's letters and the requirements of the Rules.
The materials and workmanship are good, and the engine was found satisfactory when tested in the Engine Builders Works under full load conditions and later on 10% overload, against a brake dynamometer.
The governing was tested and found satisfactory.
The engine was partly opened up after test, and the parts examined were found to be in good condition.
This auxiliary oil engine is, in my opinion, suitable for the purpose intended.

32 21.10.52

200,000—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 17-10- 19 52.
Travelling Expenses (if any) £ : 8 : 0 { When received 19

TUESDAY 21 JUL 1953

Committee's Minute
Assigned Su F.E. mch. yph.

Thos. P. Hibberon
Surveyor to Lloyd's Register of Shipping.
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