

MAY 1949
pt. 4c.
D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 488

17 MAY 1949

Received at London Office

Date of writing Report 9.5. 19 49 • When handed in at Local Office 19 Port of NOTTINGHAM
No. in Survey held at Derby Date, First Survey 3.3.49 Last Survey 27.4. 19 49.
Book. Number of Visits
556 on the Single Screw vessel "ROY" Tons Gross.....
Triple Net.....
Quadruple
Built at Middlesbrough By whom built Messrs. Smith's Dock Co. Ltd., Yard No. Unknown When built 1930.
Owners A/S.D/S Ask (A. Kjerland Mgr.) Port belonging to
Engines made at Derby By whom made Pelapone Engines Ltd., Contract No. When made 1949.
Generators made at Bootle By whom made Campbell & Isherwood Ltd., Contract No. When made
of Sets One Engine Brake Horse Power 20 M.N. as per Rule 5 Total Capacity of Generators 12 Kilowatts.
Set intended for essential services

ENGINES, &c.—Type of Engines 4S.C.S.A. Engine No. 529385 2 or 4 stroke cycle 4 Single or double acting S.A.
Minimum pressure in cylinders 800 Diameter of cylinders 4.7/16" Length of stroke 6' No. of cylinders 2 No. of cranks 2
Indicated pressure 85.5 Firing order in cylinders 1-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 11"
Were a bearing between each crank No Moment of inertia of flywheel (16 m² or Kg.-cm.²) 5.6 lbs.-ft. Revolutions per minute 1000
Flywheel dia. 22" Weight 559 lbs. Means of ignition Compression Kind of fuel used Diesel Oil
Crank Shaft, dia. of journals as per Rule App. 3.1/8" Crank pin dia. 2.7/8" Crank Webs Mid. length breadth shrunk Thickness parallel to axis
as fitted Wheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted 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
The cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material
Eng Water Pumps, No. One Engine driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel
Lubricating Oil Pumps, No. and size 90 gals. per hour.
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
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
Are a drain arrangement fitted at the lowest part of each receiver
Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
Joints, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
Eng Air Receivers, No. Total cubic capacity Internal diameter thickness
Joints, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type No. 42216
Voltage of supply 110 volts Full Load Current 109 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
off Yes Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes
Terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced
ded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes
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
Generators are 100 kw. or over have they been built and tested under survey
of driven machinery other than generator

S.—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks
(If not, state date of approval)
Resonant Vibration characteristics if applicable been approved Not applicable Armature shaft Drawing No.
(state date of approval)

GEAR

The foregoing is a correct description,

FOR AND ON BEHALF OF
PELAPONE ENGINES LTD.
Manufacturer.



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003591-003598 0179

Dates of Survey while building
During progress of work in shops - - 3.3.49. 18.3.49. 27.4.49.
During erection on board vessel - - -
Total No. of visits 3

Dates of Examination of principal parts—Cylinders 3.3.49. Covers 3.3.49. Pistons 3.3.49. Piston rods

Connecting rods 3.3.49. Crank and Flywheel shafts Intermediate shafts

Crank shaft { Material Drop forged Tensile strength
Elongation Identification Marks L.R.J. 3929 - 18.3.49. W.K.

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 Regulations of the Society, materials and workmanship being good.

On completion the engine was run in the shops under working conditions and found satisfactory.

The engine has been despatched to Messrs. Tyne Dock Engineering Co. at South Shields.

The amount of Fee ... £ 4 : 0 : 0 When applied for 16/5/ 19 49.
Travelling Expenses (if any) £ : : When received 19

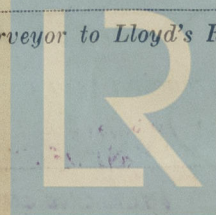
Committee's Minute

Assigned

FRI. 1 JUL 1949

See Bms. 3244

H Thorburn
Surveyor to Lloyd's Register of Shipping.



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