

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 788.

25 SEP 1952

Writing Report 22-8-1952 When handed in at Local Office 1-9-1952 Port of LEEDS.
Survey held at Wakefield. Date, First Survey 24-6-52. Last Survey 1-7-1952.
Number of Visits 3
Screw vessel. Tons Gross - Net -
Ship "DEKLOP" Yard No. - When built -
By whom built N.V. Scheepshouwerf EN Machinefabriek "Deklop".
Rollo N.V. O/n. 8731.B. Port belonging to -
Engines made at Wakefield. By whom made Pelapone Engines Ltd. Engine Contract No. 13747 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.
intended for essential services -

ENGINES, &c.—Type of Engines Type 53. 2 or 4 stroke cycle 4. Single or double acting Single.
Maximum pressure in cylinders 850 lbs./sq. in. Diameter of cylinders 4 7/16" Length of stroke 6" No. of cylinders 3 No. of cranks 3.
Indicated pressure 85.5 lbs./sq. in. Firing order in cylinders 1,3,2. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 3/8" & 1 1/2".
Were a bearing between each crank: No. Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 1100.
Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 4 3/8" Thickness parallel to axis -
Mid. length thickness 1 1/8" shrunk Thickness round eye-hole -
Crank Shaft, dia. of journals as per Rule approved. Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 4 3/8" Thickness parallel to axis -
as fitted 3 1/8" & 3 1/8" Mid. length thickness 1 1/8" shrunk Thickness round eye-hole -
Crank Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - General armature, moment of inertia (16 m² or Kg.-cm.²) -
as fitted - as fitted -

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 on vessel To be lagged.
Cooling Water Pumps, No. One Pelapone Plunger Is the sea suction provided with an efficient strainer which can be cleared within the vessel.
Lubricating Oil Pumps, No. and size One Gear Type.
Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
Suction Air Pumps, No. - Diameter - Stroke - Driven by -

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 -
The internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -
Were 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 -
Suction 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 -
Voltage of supply - volts. Full Load Current - Amperes. Direct or Alternating Current -
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 -
All terminals accessible, clearly marked, and furnished with sockets. Are they so spaced -
Were the generators under 100 kw. full load rating, have the makers supplied certificates of test - and do the results comply with the requirements -
Were the generators 100 kw. or over have they been built and tested under survey -
List of driven machinery other than generator -

Plans.—Are approved plans forwarded herewith for Shafting 1-1-52. Receivers - Separate Tanks -
(If not, state date of approval)
Torsional Vibration characteristics if applicable been approved No. Armature shaft Drawing No. -
(state date of approval)

REDUCING GEAR—As per Rule Requirements.

The foregoing is a correct description,
PELAPONE ENGINES LTD
WAKEFIELD. Manufacturer.



JM
13/9/52

4^c 788.

Dates of Survey while building: During progress of work in shops - 24-6-52, 25-6-52, 1-7-52; During erection on board vessel - -; Total No. of visits - 3

Dates of Examination of principal parts: Cylinders - 24-6-52, 25-6-52; Covers - 24-6-52, 25-6-52; Pistons - 24-6-52; Piston rods - -; Connecting rods - 24-6-52; Crank and Flywheel shafts - 24-6-52; Intermediate shafts - -

Crank shaft: Material - Steel; Tensile strength - 35/45 tons/sq. in.; Elongation - Not less than 22%; Identification Marks - L.R. J. 5633 C.D. 16-6-52

Flywheel shaft, Material - Engine; Identification Marks -

Identification marks on Air Receivers: Engine - LLOYD'S 13747 1-7-52. 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 against a brake dynamometer. The governing was tested and found satisfactory. This auxiliary oil engine is, in my opinion, suitable for the purpose intended.

2009-08-11 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 5 : 0 : 0 When applied for 23-8-19 52. Travelling Expenses (if any) £ : 8 : 0 When received 19

Committee's Minute THURSDAY - 5 NOV 1953 Assigned See Rpt 4c.

Mrs. J. Bibbcom Surveyor to Lloyd's Register of Shipping.



Rpt. 13. Date of w No. in Reg. Book. Built a Owners Installat Is vessel Plans, ha Heating Prime Mo with a tri Are the ge Have mach under 100 is the ven damage fr fore b are they i steam and material is per Rule for each ge twin and the su Are compar ammeters protection Indicaft Switches, C make of fus overload do devices ope if otherwis under max Are all the damage type of cabl and laundri to perfor Between cap Are all lead bulkheads pr effectively b Have refrige Are the mot