

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 336.

Received at London Office

- 8 JAN 1949

Date of writing Report 24-12-1948 When handed in at Local Office 7.1.1949 Port of LEEDS.

No. in Survey held at Reg. Book. Date, First Survey 3-11-48 Last Survey 14-12-1948 Number of Visits 2

Single on the Twin Triple Quadruple Screw vessel Tons Gross Net

Built at Foxhol By whom built Scheepswerf "Volharding" Ger. Bodewes. Yard No. 273 When built -

Owners Dammers & Van. der Heide's Shipping & Trading Co. Port belonging to

Oil Engines made at Wakefield By whom made Pelapone Engines Ltd. Engine Contract No. 8853 When made 1948

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

No. of Sets One Engine Brake Horse Power 20 M.N. as per Rule - Total Capacity of Generators - Kilowatts.

Is Set intended for essential services.

OIL ENGINES, &c.—Type of Engines Heavy Oil. Type 52. 2 or 4 stroke cycle 4 Single or double acting S.A.

Maximum pressure in cylinders 850 lbs/sq.in. Diameter of cylinders 4.7/16" Length of stroke 6" No. of cylinders 2 No. of cranks 2

Mean indicated pressure 85.5 lbs/sq.in. Firing order in cylinders - Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 11.3"

Is there a bearing between each crank No Moment of inertia of flywheel (lb-m² or Kg.-cm.²) - Revolutions per minute 1000

Flywheel dia 22" Weight 300 lbs. Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, dia. of journals as per Rule approved 3.1" & 3.1" Crank pin dia 2.2" with 1.3" hole slightly offset. Mid. length breadth 4.3" Thickness parallel to axis -

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

Are 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 To be lagged on Vessel.

Cooling Water Pumps, No. One - plunger type 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 (220 galls/hr.)

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

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

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

Is 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

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

Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS:—Type Generator not supplied to Engine Builder.

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 Yes 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 One - Water Circ. pump (Plunger Type) One - Lub. Oil Pump (Gear Type)

PLANS.—Are approved plans forwarded herewith for Shafting 9-7-48 Receivers - Separate Tanks 17-12-45.

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

SPARE GEAR Engine spares supplied to Rule Requirements. ✓

The foregoing is a correct description,

E. J. Hill

PELAPONE ENGINES LTD Manufacturer.
LOFHOUSE GATE,
WAKEFIELD

© 2020

Lloyd's Register
Foundation

002701-002710-0147

Dates of Survey while building { During progress of work in shops - - 3-11-48, 14-12-48.
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders 3-11-48 Covers 3-11-48 Pistons 3-11-48 Piston rods -

Connecting rods 3-11-48 Crank and Flywheel shafts 14-12-48 Intermediate shafts -

Crank shaft { Material O.H. Steel Tensile strength 35-45 Tons/sq.in.
Elongation Not less than 22% on 2" Identification Marks L.R. J.3829 3-12-48. 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 (Aalborg Vaerft A/s. Yarn N276)

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 letter 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.

The governing was tested and found satisfactory.

This oil engine is, in my opinion, suitable for installation in the above vessel.

501.1.18-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 7. 1. 1949.
Travelling Expenses (if any) £ : 5 : 0 { When received 19

FRI. 3 JUN 1949

Committee's Minute
Assigned See F.E. Welch. spk

