

EIVED
Rpt. 4c.
D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 112873

Received at London Office 12 JUN 1945

Date of writing Report 6-6-1945 When handed in at Local Office 12 JUN 1945 Port of Ipswich
No. in Survey held at Colchester Date, First Survey and Last Survey 4-6-1945
Reg. Book. Number of Visits ONE

Single on the Twin Triple Quadruple Screw vessel
Built at Glasgow By whom built A. & J. Inglis Ltd. Yard No. 1302 286 - When built
Owners Port belonging to

Oil Engines made at Colchester By whom made Davey, Paxman & Co. Ltd. Contract No. 4815 When made 1945
Generators made at Chelmsford By whom made Crompton Parkinson Ltd. Contract No. F121A.1384 When made 1945
No. of Sets 6 on Engine Brake Horse Power 48. Nom. Horse Power as per Rule 137.8 Total Capacity of Generators 25 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil. (4 R.O. Type) 2 or 4 stroke cycle 4. Single or double acting Single
Maximum pressure in cylinders 750 lb. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 4. No. of cranks 4.
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 7/8" Is there a bearing between each crank Yr
Revolutions per minute 1100 Flywheel dia. 28" Weight 495 lb. Means of ignition Compression Kind of fuel used Diesel
Crank Shaft, dia. of journals as per rule 3 3/8" Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 1 1/2" Thickness parallel to axis
as fitted 3 3/8" Mid. length thickness 1 1/4" Thickness around eyehole
Flywheel Shaft, diameter as per Rule 3 3/8" Intermediate Shafts, diameter as fitted Thickness of cylinder liners 1/8"
Is a governor or other arrangement fitted to prevent racing of the engine when de-coupled Yr Means of lubrication Forced
Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material
Cooling Water Pumps, No. 6 on Is the sea suction provided with an efficient strainer which can be cleared within the vessel
Lubricating Oil Pumps, No. and size 6 on forced.

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 Enclosed ventilated
Pressure of supply 110 volts. Full Load Current 227 Amperes. Direct or Alternating Current Direct.
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 Yr
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

PLANS. Are approved plans forwarded herewith for Shafting 10-6-44. Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR

The foregoing is a correct description.

For and on behalf of DAVEY, PAXMAN & Co. Limited

[Signature]
SALES MANAGER

Manufacturer.



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008656-008668-0215

Date of writ

No. in Reg. Book.

Built at

Owners

Oil Engine

Generators

No. of Sets

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PLANS.

SPARE

Dates of Survey while building

- During progress of work in shops - - 1945 June 4
- During erection on board vessel - - -
- Total No. of visits

Dates of Examination of principal parts—Cylinders 11-5-45 Covers 12-5-45 Pistons Piston rods

Connecting rods Crank and Flywheel shafts Intermediate shafts

Crank and Flywheel shafts, Material Identification Marks

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers

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.)

The Engine has been constructed under Special Survey in accordance with the approved plans, Rule requirements & Secretary's letters.
 The materials & workmanship are of good description.
 The engine has been examined under full load condition for a period of four hours.

Notes This type of engine has been approved in respect to requirements of Notice 1803
 See London endorsement 31.8.45 attached to Low. files.

The amount of Fee ... £ 5 : 5 : 0
 Travelling Expenses (if any) £ : 10 : 6

When applied for, 12 JUN 1945
 When received, 19

Boysell
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned See attached machinery report

GLASGOW 28 DEC 1945



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