

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 112872

pt. 4c.

JUN 1945

12 JUN 1945

Received at London Office

Date of writing Report 6-6-1945 When handed in at Local Office

Port of *Sp. Swich.*

No. in Survey held at *Colchester*

Date, First Survey *and*

Last Survey 4-6-1945

on the *Single* Screw vessel
Triple
Quadruple

Empire Fitzroy

Tons { Gross 890
Net 379

Built at *Glasgow*
Owners *Mow & (British Tankers Ltd)*

By whom built *Messrs. A. J. Inglis Ltd.*

Yard No. *1301* When built *1945*

Port belonging to *Glasgow*

Oil Engines made at *Colchester*

By whom made *Davey, Paxman & Co. Ltd.* Contract No. *4814* When made *1945*

Generators made at *Chelmsford*

By whom made *Crompton Parkinson Ltd.* Contract No. *F.12/A.1395* When made *1945*

No. of Sets *One* Engine Brake Horse Power *48* Nom. Horse Power as per Rule *10.8* Total Capacity of Generators *20* Kilowatts.

IL ENGINES, &c.—Type of Engines *Heavy Oil (4 R.O. Lys.)* 2 or 4 stroke cycle *4*. Single or double acting *Single*

Maximum pressure in cylinders *750 lb/sq. in.* 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 *Yes*

Revolutions per minute *1100* Flywheel dia. *28"* Weight *495 lbs.* Means of ignition *Compression* Kind of fuel used *Seal*

Crank Shaft, dia. of journals *as per rule 3 1/8"* Crank pin dia. *2 7/8"* Crank Webs *Mid. length breadth 4 1/2"* Thickness parallel to axis *shrunk*

Flywheel Shaft, diameter *as per Rule 3 1/8"* Intermediate Shafts, diameter *as per Rule* Thickness of cylinder liners *1/8"*

Is a governor or other arrangement fitted to prevent racing of the engine when decoupled *Yes* 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 *Yes*

Cooling Water Pumps, No. *One* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Yes*

Lubricating Oil Pumps, No. and size *One fractional*

Air Compressors, No. *No. of stages* Diameters *Stroke* Driven by *Yes*

Scavenging Air Pumps, No. *Diameter* *Stroke* Driven by *Yes*

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

Is each receiver, which can be isolated, fitted with a safety valve as per Rule *Yes*

Can the internal surfaces of the receivers be examined *Yes* What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver *Yes*

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 unitary*

Pressure of supply *110* volts. Full Load Current *227* Amperes. Direct or Alternating Current *Single*

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*

Generators, are they compounded as per rule *is an adjustable regulating resistance fitted in series with each*

Are all terminals accessible, clearly marked, and furnished with sockets *Yes*

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched *Yes* 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 *Yes* and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey *Yes*

PLANS. Are approved plans forwarded herewith for Shafting *10-6-44* Receivers *Yes* Separate Tanks *Yes*

SPARE GEAR

The foregoing is a correct description,
For and on behalf of

DAVEY, PAXMAN & Co. Limited

Manufacturer.

SALES MANAGER



© 2021

Lloyd's Register
Foundation
011940-011946-0152

Dates of Survey while building { During progress of work in shops - - 1945 June 4
During erection on board vessel - - -
Total No. of visits 042

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

Steel

Identification Marks

Nº 729 A.S.

Intermediate shafts, Material

Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case? If so, state name of vessel A & J. L. L. 7-285.

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 conditions for a period of four hours.

Note. This type of engine has been approved in respect to requirements of Notice 1803.

See Low. endorsement 31.8.45 attached to London file.

The amount of Fee ...

£ 5 : 5

When applied for,

12 JUN 1945

Travelling Expenses (if any) £

: 10 : 6

When received,

19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

23 OCT 1945

Assigned

ACCOMPANYING MACHINERY REPORT.



© 2021

Lloyd's Register
Foundation