

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 112764

Date of writing Report 18.4.1945 When handed in at Local Office

30 APR 1945

Port of

Received at London Office

30 APR 1945

No. in Survey held at
Reg. Book.

Colchester.

Date, First Survey

and

Last Survey

13.4.1945

Number of Visits

on

ze of opening

5/16"

Single
on the Twin
Triple
Quadruple
Screw vessel

Empire Belgrave

Tons { Gross
Net

Built at

Glasgow

By whom built

A. J. Inglis Ltd.

Yard No. 1299 When built

Owners

Port belonging to

and diameter

Oil Engines made at

Colchester

By whom made

Dawson Phipps & Co. Ltd. Contract No. 4812. When made 1945.

Generators made at

Chelmsford.

By whom made

Crompton Parkinson Contract No. F.121A-1392 When made 1945.

No. of Sets

6

Engine Brake Horse Power

48

Nom. Horse Power as per Rule

14

Total Capacity of Generators

25

Kilowatts.

OIL ENGINES, &c.—Type of Engines

Heavy Oil

4 RQ Type

2 or 4 stroke cycle

4

Single or double acting

Single

Maximum pressure in cylinders

750 lb. sq. in.

Diameter of cylinders

4 3/8"

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" 5 1/2"

Is there a bearing between each crank

Yes

Revolutions per minute

1100

Flywheel dia.

28"

Weight

490 lb.

Means of ignition

Compression

Kind of fuel used

Diesel

Crank Shaft, dia. of journals

as per Rule

as fitted

Crank pin dia.

2 7/8"

Crank Webs

Mid. length breadth

4 1/2"

Thickness parallel to axis

Mid. length thickness

1 1/4"

Thickness around eyehole

Flywheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

Thickness of cylinder liners

1/8"

Is a governor or other arrangement fitted to prevent racing of the engine when detached

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.

6

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Yes

Lubricating Oil Pumps, No. and size

6 in. frame

Air Compressors, No.

Yes

No. of stages

Yes

Diameters

Yes

Stroke

Driven by

Scavenging Air Pumps, No.

Yes

Diameter

Yes

Stroke

Yes

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

Enclosed unit type

Pressure of supply

110

volts.

Full Load Current

227

Amperes.

Direct or Alternating Current

Direct

If alternating current system, state the periodicity

Yes

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

Yes

is an adjustable regulating resistance fitted in series with each

shunt field

Yes

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

Yes

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

Yes

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

(If not, state date of approval)

10.6.44.

Receivers

Yes

Separate Tanks

Yes

SPARE GEAR

The foregoing is a correct description,

R. DAVY, PAXMAN & CO. LIMITED,

Manufacturer.

A. H. Harrison



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Lloyd's Register
Foundation

W 986-0178

Dates of Survey while building

13-4-45.

Dates of Examination of principal parts—Cylinders

LLOYDS
504850
20-3-43
21-3-43

Covers

LLOYDS
504850
20-3-43
H.Y.B.

Pistons

Piston rods

Connecting rods

Crank and Flywheel shafts

Intermediate shafts

Crank and Flywheel shafts, Material

Steel

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 & Secretaries letter. The materials & workmanship are sound & of good description. The Engine has been tested under full load conditions for a period of four hours and for 1/2 hour at 10% overload. The Governor has been tested & found satisfactory.

Approved for Torsional Endorsement 31/8/45

Notes

This type of engine & set has been approved in respect to requirements of India R.O.S.

See how endorsement 31.8.45 attached to how file

The amount of Fee ... £ 5 : 5 : 0

Travelling Expenses (if any) £ 10 : 6

When applied for,

30 APR 1945

When received,

19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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