

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13792.

OCT-6 1937

Received at London Office

Date of writing Report 5th Oct. 1937 When handed in at Local Office 6th Oct. 1937 Port of BristolNo. in Survey held at Dursley Date, First Survey 20th Aug. Last Survey 23rd Sept 1937
Reg. Book.

Number of Visits 2

Single
on the Twin
Triple
Quadruple

Screw vessel

Tons
Gross
Net

Built at By whom built Yard No. When built

Owners Port belonging to

Oil Engines made at Dursley By whom made R.A. Lister & Co. Contract No. M 1110 When made 1937.

Generators made at Dursley By whom made Hawsleys Contract No. 1005/612 When made 1937.

No. of Sets 1 Engine Brake Horse Power 27. Nom. Horse Power as per Rule Total Capacity of Generators 12. Kilowatts.

OIL ENGINES, &c.—Type of Engines 4 cc. S.A. airless injection 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 750 lb./sq. in. Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 3 No. of cranks 3.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/4" Is there a bearing between each crank Yes.

Revolutions per minute 1000 Flywheel dia. 26" Weight 294 lbs. Means of ignition Compression Kind of fuel used Diesel.

Crank Shaft, dia. of journals as per Rule 3" as fitted 3" Crank pin dia. 3" Crank Webs Mid. length breadth 3 1/2" Mid. length thickness 1 1/4" Thickness parallel to axis shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 31.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced.

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

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

Air Compressors, No. 39949. No. of stages Two Diameters 4 1/2" 1 5/8" Stroke 3 3/4" Driven by Gil engine.

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—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 D.C. Compound wound drip proof.

Pressure of supply 220 volts. Load 54.5 Amperes. Direct or Alternating Current Direct.

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes.

Generators, do they comply with the requirements regarding rating Yes. are they compound wound Yes.

are they over compounded 5 per cent. Yes. if not compound wound state distance between each generator

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.

PLANS. Are approved plans forwarded herewith for Shafting No. Receivers Separate Tanks

SPARE GEAR

The foregoing is a correct description,

Per. pro. R.A. Lister (Marine Sales Dept.)

Manufacturer.



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Lloyd's Register
Foundation

011079-011088-0227

Dates of Survey while building { During progress of work in shops - - 20/8/37, 23/9/37.
During erection on board vessel - - -
Total No. of visits Two.

Dates of Examination of principal parts—Cylinders 20/8/37 Covers 20/8/37 Pistons 20/8/37 Piston rods
Connecting rods 20/8/37 Crank and Flywheel shaft 20/8/37 Intermediate shaft

Crank and Flywheel shafts, Material Steel Identification Mark 7860
Intermediate shafts, Material Identification Marks
ENGINE " LLOYDS TEST M 655 24 23/9/37.
" LLOYDS TEST 120 4700 16 1/2 0" R.R. 23/7/37.

Is this machinery duplicate of a previous case No. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

All parts of this engine have been examined before being assembled
found satisfactory.

The engine direct coupled to the generator & clutch coupled to
the air compressor was tested on the test bed under full load & overload
conditions with satisfactory results.

This generating - compressor set is stated to be for Messrs Goole
Shipbuilding Co's Yard No 330.

The amount of Fee ... £ 3. 3. 0
Travelling Expenses (if any) £ 11. 6
When applied for, 5. 19. 37.
When received, 27. 6. 19. 37.

E. H. Harbrough.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned
FRI. 8 APR 1938
See Vol 7 E 48713