

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

Bel. 14623.

Received at London Office

17 SEP 1948

Date of writing Report 15-9-1948 When handed in at Local Office 16-9-1948 Port of LEEDS.

No. in Survey held at Reg. Book. Date, First Survey 14-7-48 Last Survey 16-7-1948 Number of Visits 2

Single on the Turn Triple Quadruple Screw vessel

M.V. "Galta"

Tons Gross 8247 Net 4684.

Built at Belfast By whom built Messrs. Harland & Wolff Ltd. Yard No. 1373 When built 1948

Owners A/S Bulls Tankerederi Port belonging to Sandeffjord.

Oil Engines made at Leeds By whom made J. & H. McLaren Ltd. Engine No. 43027 Contract No. 30504A. When made 1948

Generators made at LOUGHBOROUGH By whom made BRUSH-ELECT. MFG. Co. GEN No. 51383 Contract No. When made 1948

No. of Sets 1 Engine Brake Horse Power 66 Nom. Horse Power as per Rule 16.5 Total Capacity of Generators 40 Kilowatts.

OIL ENGINES, &c.—Type of Engines McLarens M.R.4 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 75 lbs/sq. Diameter of cylinders 142 mm. Length of stroke 200 mm. No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 178 mm. Is there a bearing between each crank Yes

Revolutions per minute 750 Flywheel dia. 2' - 9" Weight 425 lbs. Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, dia. of journals as per Rule approved 85 mm. Crank pin dia. 85 mm. Crank Webs Mid. length breadth 130 mm. Thickness parallel to axis - Mid. length thickness 43 mm. Thickness around eyehole -

Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 6.75 mm.

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 No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Cooling Water Pumps, No. One - Plunger type Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size One Gear Type

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 yes State No. of Report or Certificate X 64.

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 hand-hole.

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. ONE Total cubic capacity 120 Litres Internal diameter 17 1/4" thickness 3/8"

Seamless, lap welded or riveted longitudinal joint fusion welded Material steel Range of tensile strength 28/32 T/O Working pressure by Rules 356 lbs/sq. INGINE DRIP-PROOF

ELECTRIC GENERATORS: Type Not supplied to Builder. DRIP-PROOF

Pressure of supply 110 volts. Full Load Current 3 Amperes. Direct or Alternating Current D.C.

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 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 CERT. APPLIED FOR 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 4-11-47 Receivers yes - Separate Tanks 30-1-48 (If not, state date of approval)

SPARE GEAR As per Rule Requirements.

The foregoing is a correct description.

J. Pearson for S.A. Deighton. Manufacturer.



Dates of Survey while building { During progress of work in shops - - } 14-7-48, 16-7-48.  
 { During erection on board vessel - - - }  
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 14-7-48 Covers 16-7-48 Pistons - Piston rods -  
 Connecting rods Crank and Flywheel shafts Intermediate shafts  
 Crank and Flywheel shafts, Material O.H.Steel Identification Marks LLOYD'S S.1987 7-1-48 D.R.W.  
 Intermediate shafts, Material - Identification Marks -  
 Identification marks on <sup>AUXILIARY</sup> Air Receivers - No. 429  
 R.O.B. 28.7.48.

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.)

This engine has been constructed under special survey of tested materials in accordance with the approved plans, Secretary's letters and the requirements of the Rules.

The materials and workmanship, are good, but the engine was inadvertently despatched to the ship by the Makers without the brake running test being witnessed by the Society's Surveyors.

In my opinion this engine is suitable for installation in the above vessel, subject to full load running tests and governing tests being satisfactorily carried out on board the vessel.

Belfast. September 1948. This generating set has been satisfactorily installed on board the vessel and full load running and governing tests satisfactorily carried out.  
 E. Grievess.

Im. 4.33.—Transfer. (MADE AND PRINTED IN ENGLAND)

The amount of Fee ... ..	£ 4 : 0	} When applied for, 16-9-1948
Travelling Expenses (if any) £	2 : 8	

*R. W. Lellan*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 29 OCT 1948

Assigned

*See minute on  
 J.E. Mackay & Co.*



© 2021

Lloyd's Register  
 Foundation