

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 49683

Report 16.12.1952 When handed in at Local Office 16.12.1952 Port of Glasgow Received at London Office 27 DEC 1952

Survey held at Glasgow Date, First Survey 4.11.52 Last Survey 25.9.1952

Single }
in the Twin }
Triple }
Quadruple } Screw vessel Braemar Castle

By whom built Yard No When built

Port belonging to

made at Glasgow By whom made Messrs Harland & Wolff Ltd Contract No 1459 When made 1952

made at Belfast By whom made Messrs Harland & Wolff Ltd Contract No 1459 When made 1952

Engine Brake Horse Power 290 M.N. as per Rule Total Capacity of Generators 75 Kilowatts

for essential services Yes

VES, &c.—Type of Engines Diesel oil Airless injection 2 or 4 stroke cycle 4 Single or double acting Single

Stroke in cylinders 800 lbs Diameter of cylinders 250 7/16 Length of stroke 300 7/16 No. of cylinders 3 No. of cranks 3

100 lbs Firing order in cylinders 1-3-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 308 7/16

standing between each crank 4 1/2 Moment of inertia of flywheel (16 m² or Kg.-cm.²) 367.516 cm² Revolutions per minute 500

Weight 1702 Kg Means of ignition Compression Kind of fuel used Diesel oil

as per Rule 180 7/16 Crank pin dia 165 7/16 Crank Webs Mid. length breadth 230 7/16 Thickness parallel to axis

as fitted 180 7/16 Crank Webs Mid. length thickness 80 7/16 Thickness round eyehole

as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)

as fitted Intermediate Shafts, diameter as fitted General armature, moment of inertia (16 m² or Kg.-cm.²)

provided to prevent racing of the engine when declutched Yes Means of lubrication Laced Kind of damper if fitted

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

Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

1 Pumps, No. and size One

rs, No. One No. of stages 2 Diameters Stroke Driven by

Pumps, No. Diameter Stroke Driven by

VERS:—Have they been made under Survey State No. of Report or Certificate

which can be isolated, fitted with a safety valve as per Rule

l surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

arrangement fitted at the lowest part of each receiver

Air Receivers, No. Cubic capacity of each Internal diameter thickness

added or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ceivers, No. Total cubic capacity Internal diameter thickness

added or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

GENERATORS:—Type Compound dry proof Serial No. 10542

ly 225 volts Full Load Current 333 Amperes Direct or Alternating Current Direct

urrent system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field

s accessible, clearly marked, and furnished with sockets Are they so spaced

they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements

are 100 kw. or over have they been built and tested under survey

n machinery other than generator

approved plans forwarded herewith for Shafting No Receivers Separate Tanks

Vibration characteristics if applicable been approved Yes Armature shaft Drawing No.

R As Rule requirements

The foregoing is a correct description,

for HARLAND AND WOLFE, LIMITED

Wm. J. Wright

Finnieston Secretary

Manufacturer.



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Lloyd's Register

004564-004572-0248

Dates of Survey while building During progress of work in shops - - 1952 Apr. 7. 8. May 15. June 16. Jul 3. Aug 7. 11 Sep. 25.
During erection on board vessel - - -
Total No. of visits 8.

Dates of Examination of principal parts—Cylinders 15/5/52 Covers 15/5/52 Pistons 15/5/52 Piston rods ✓

Connecting rods T302 T318 + T350. Crank and Flywheel shafts ✓ Intermediate shafts ✓

Crank shaft Material S.M. Steel Tensile strength
Elongation Identification Marks EB 3340. 5/5/52 EL

Flywheel shaft, 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.) This auxiliary engine has been

under Special Survey in accordance with the Rules & Approved Plans

Materials & Workmanship are good

On completion Eng. No. 1767 was subject to full power trials at 500 R.P.M. with results. The unit has now been dispatched to Mess Harland & Wolff La Bechar for installation in the vessel.

The amount of Fee ... £ 22 : 11 : 0 When applied for 23 DEC 1957

Travelling Expenses (if any) £ : : When received 19

Committee's Minute

Assigned Referred for completion

GLASGOW 23 DEC 1952

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