

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 125413

Report 30-8-52 When handed in at Local Office 2-9-52 Port of London Received at London Office

Survey held at London Date, First Survey 13 August Last Survey 29 Aug 1952 Number of Visits 4

Single the Twin Triple Quadruple Screw vessel M/V CLYDEFIELD Tons Gross 1116.3 Net 641.25

CASGOW By whom built HARLAND & WOLFF LD. Yard No. 1436 When built

HUNTING & SON, LD. Port belonging to NEWCASTLE

No. at Dagenham By whom made Russell Newbery & Co Contract No. 8237 When made 1952

at By whom made Contract No. When made

Engine Brake Horse Power 43 M.N. as per Rule Total Capacity of Generators Kilowatts.

or essential services Auxiliary

S, &c. Type of Engines high speed compression ignition 2 or 4 stroke cycle 4 Single or double acting single

in cylinders 850 p.s.i. Diameter of cylinders 5 1/2" Length of stroke 7 1/4" No. of cylinders 4 No. of cranks 4

105 Firing order in cylinders 1 3 4 2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 3/8"

between each crank yes Moment of inertia of flywheel 34525 lb sq in (16 m<sup>2</sup> or Kg. cm.<sup>2</sup>) 34525 Revolutions per minute 650

25" Weight 336 lbs Means of ignition Compression Kind of fuel used pool

as per Rule as fitted 3 3/4" Crank pin dia 3 5/8" Crank Webs Mid. length breadth 4 5/8" Mid. length thickness 1 1/16" Thickness parallel to axis shrunk Thickness round eyehole

diameter as fitted Intermediate Shafts, diameter as per Rule as fitted General armature, moment of inertia (16 m<sup>2</sup> or Kg. cm.<sup>2</sup>)

ed to prevent racing of the engine when de-clutched yes Means of lubrication forced Kind of damper if fitted none

fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

pumps, No. 1 Centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel

pumps, No. and size 1 gear pump 3 gal/min

No. No. of stages Diameters Stroke Driven by

pumps, No. Diameter Stroke Driven by

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

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

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

arrangement fitted at the lowest part of each receiver

Receivers, No. Cubic capacity of each Internal diameter thickness

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

ivers, No. Total cubic capacity Internal diameter thickness

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

GENERATORS:—Type

volts. Full Load Current Amperes. Direct or Alternating Current

ent 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

cessible, clearly marked, and furnished with sockets Are they so spaced

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

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

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

achinery other than generator

proved plans forwarded herewith for Shafting (If not, state date of approval) Receivers Separate Tanks

ation characteristics if applicable been approved (state date of approval) Armature shaft Drawing No.

Makers supply covering Rule Requirements To be verified on ship

The foregoing is a correct description,

Manufacturer.

HALF OF RUSSELL NEWBERY & CO. LTD.



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004308-004315-0012



Dates of Survey while building { During progress of work in shops - - } 13, 20, 27 & 29 August 1952  
{ During erection on board vessel - - }  
Total No. of visits 4 in shops

Dates of Examination of principal parts—Cylinders 13. 8. 52 Covers 13. 8. 52 Pistons 13. 8. 52 Piston rods ✓

Connecting rods 13. 8. 52 Crank and Flywheel shafts 27. 8. 52 Intermediate shafts ✓

Crank shaft { Material FN12 Tensile strength 40 ton  
Elongation 20% Identification Marks LLOYDS 23632-F19

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case. Yes If so, state name of vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This engine has been built under special survey of tested materials. The engine was examined during erection and under full load trip the materials and workmanship are good. The engine is coupled to Crompton Parkinson generator F122A1757 both secured to fabricated steel underbase. The set is intended for H & W Glasgow, 1436 G/G/36

The amount of Fee ... £ 5 : - : - When applied for 22 SEP 1952  
Travelling Expenses (if any) £ : : : When received 19

Committee's Minute  
Assigned  
GLASGOW 10 FEB 1953  
SEE ACCOMPANYING MACHINERY REPORT

Surveyor to Lloyd's Register  
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13 13.2.53  
Im 850-T. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)