

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 2496

Date of writing Report 8th July 1953

When handed in at Local Office

19

Port of

Received at London Office

HAMBURG

No. in Survey held at L U B E C K

Date, First Survey 9th April

Last Survey 22nd June 1953

Reg. Book.

Supplement 91652

Single

on the ~~Steam~~ Screw vessel

M.V. "DALKEY COAST"

Number of Visits 11

Gross 616.29  
Net 251.71

Built at L u b e c k

By whom built Travewerft Ebschner &amp; Gabler

Yard No. 194

When built 1953

Owners. Coastal Grano Shipping Ltd.

Port belonging to

D u b l i n

Oil Engines made at Mannheim

By whom made Motorenwerke Mannheim

Engine No. 91310

When made 1952

Generators made at Hamburg

By whom made Hans Still A.G.

Generator No. 523805

When made 1953

No. of Sets 2

B.H.P. of each Set 80 BHP

M.N. as per Rule 16

Capacity of each Generator 2 x 50 Kilowatts.

Is Set intended for essential services. yes

OIL ENGINES, &amp;c.—Type of Engines RHS 418 V

2 or 4 stroke cycle 4

Single or double acting single

Maximum pressure in cylinders 65 kg/cm<sup>2</sup>

Diameter of cylinders 140 mm

Length of stroke 180 mm

No. of cylinders 4

No. of cranks 4

Mean indicated pressure 6.9/8.2 kg/cm<sup>2</sup>

Span of bearings (i.e., distance between inner edges of bearings in way of a crank) —

Is there a bearing between each crank. yes

Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) —

Revolutions per minute 950

Flywheel dia. 590 mm

Weight 103 kgs

Means of ignition pre-chamber

Kind of fuel used gas oil

Crank Shaft, Solid forged

Semi-built

dia. of journals

as per Rule —

Crank pin dia. —

Crank Webs

Mid. length breadth —

Thickness parallel to axis —

All-built

as fitted —

as fitted —

Mid. length thickness —

shrink —

Thickness round eye-hole —

Flywheel Shaft, diameter

as per Rule —

Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) —

Are means provided to prevent racing of the engine. yes

Means of lubrication forced

Kind of damper if fitted none

Are the cylinders fitted with safety valves. no

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material. exhaust pipe in way of eng. water cooled,

Cooling Water Pumps, No. and how driven 1-direct

coupled

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

Lubricating Oil Pumps, No. and size 1 - 1.5 m<sup>3</sup>/h

Air Compressors, No. 2

No. of stages 2

Diameters 114/70 mm

130/50 mm

Stroke 90 mm

78 mm

Driven by

M.E.

emergency

Scavenging Air Pumps or Blowers, No. —

How driven —

Diesel eng.

AIR RECEIVERS:—Have they been made under Survey none (to be stated by ME receiver)

State No. of Report or Certificate —

State full details of safety devices —

Can the internal surfaces of the receivers be examined and cleaned. —

Is there a drain arrangement fitted at the lowest part of each receiver. —

High Pressure Air Receivers, No. none

Cubic capacity of each —

Internal diameter —

thickness —

Seamless, lap welded or riveted longitudinal joint. —

Material —

Range of tensile strength —

Working pressure —

Starting Air Receivers, No. —

Total cubic capacity —

Internal diameter —

thickness —

Seamless, lap welded or riveted longitudinal joint. —

Material —

Range of tensile strength —

Working pressure —

ELECTRIC GENERATORS:—Type RHS 418 V - SA 325 FM 4

Pressure of supply 230 volts

Full Load Current 217 each

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

Are shields 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, &amp; tested by the Society's Surveyors

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. —

Details of driven machinery other than generator. none

PLANS.—Are approved plans forwarded herewith for Shafting no - apprd. 3.2.51

Receivers —

Separate Tanks —

(If not, state date of approval)

Have Torsional Vibration characteristics if applicable been approved. —

(State date of approval and name of previous duplicate case, if any)

Armature shaft Drawing No. —

As the spare gear required by the Rules been supplied. yes

The foregoing is a correct description,

Travewerft

Ebschner &amp; Gabler

Manufacturer.



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Foundation

002013-002013-0056



Dates of Survey while building { During progress of work in shops - - }  
During erection on board vessel - - } 1953: Apr. 9, 21, 23, May 5, 7, 11, 19, 26, June 18, 20, 22,  
Total No. of visits 11

Dates of Examination of principal parts—Cylinders—Covers—Pistons—Piston rods—  
Connecting rods—Crank and Flywheel shafts—Intermediate shafts—

Crank shaft { Material—Tensile strength—359367/745 359369/746  
Identification Marks LLOYDS HKS 8-11-52  
Elongation—

Flywheel shaft, Material—Identification Marks—  
Identification marks on Air Receivers 939 & 940 LLOYDS TEST 60 Atm. W.P. 30 Atm. CL 25.11.52

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.) These generator sets have now been properly installed on board, examined and tested under working conditions, governor adjusted and all found in good order, suitable for use in a vessel classed with the Society.

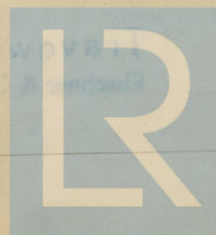
3m.0.1.—F. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ see Report 4b  
Travelling Expenses (if any) £ :

When applied for 19  
When received 19

Committee's Minute TUESDAY 22 SEP 1953  
Assigned See Rpt 4b

Surveyor to Lloyd's Register of Shipping.



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Rpt. 4c.

Date of writing

No. in Su  
Reg. Book.

Built at Ha

Owners.

Oil Engines ma

Generators mad

No. of Sets

Is Set intended

OIL ENGINE

Maximum press

Mean indicated  
pressure

Is there a bearin

Flywheel dia.

Crank Shaft,

Flywheel Shaft,

Are means prov

Are the cylinders

Cooling Water I

Lubricating Oil

Air Compressors

Scavenging Air

AIR RECEIV

(other than ma  
State full details

Can the internal

Is there a drain a

High Pressure A

Seamless, lap wel

Starting Air Rec

Seamless, lap wel

ELECTRIC G

Pressure of suppl

If alternating cur

on and off.

Are all terminals

or shielded that th

If the generators a

If the generators a

Details of driven

PLANS.—Are ap

Have Torsional Vil

Has the spare gear