

3 - JUL 1947

Rpt. 4c.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 165.

Date of writing Report

19

When handed in at Local Office

19

Port of

NOTTINGHAM.

Received at London Office

2 - APR 1947

No. in  
Reg. Book.

Survey held at

Date, First Survey

Last Survey

19

Number of Visits

Single  
on the ~~Two~~  
Triple  
Quadruple

Screw vessel *trawler "Egill Randi"*

Ordered by

Tons { Gross. 648  
Net. 217.31

Built at *C. H. deen*

By whom built *Alex. Hall & Co., Ltd.*

Yard No. *716*

When built *1947*

Owners *Icelandic Government*

Port belonging to *Neskaupstadur*

Oil Engines made at *Lincoln*

By whom made *Ruston & Hornsby Ltd.*

Contract No. *450664/5* When made *1947*

Generators made at

By whom made *British Thomson-Houston Co., Ltd.*

Contract No.

When made

No. of Sets *2*

Engine Brake Horse Power

*120*

M.N. as per Rule

*30*

Total Capacity of Generators

*160*

Kilowatts.

Is Set intended for essential services.

OIL ENGINES, &c.—Type of Engines *6VPHZ.* Engine Nos. *247245-6.* 2 or 4 stroke cycle *4* Single or double acting *SA.*

Maximum pressure in cylinders *1000 lbs.* Diameter of cylinders *5 1/2"* Length of stroke *8"* No. of cylinders *6* No. of cranks *6*

Mean indicated pressure *109 lbs.* Firing order in cylinders *1-2-4-6-5-3* Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *6 1/2 25/32"*

Is there a bearing between each crank *Yes* Moment of inertia of flywheel *1870 lbs. ft. 2* Revolutions per minute *1000*

Flywheel dia. *26"* Weight *630 lbs.* Means of ignition *Compression.* Kind of fuel used *Diesel Oil.*

Crank Shaft, dia. of journals *as per Rule. Approved.* Crank pin dia. *3 1/4"* Crank Webs *Mid. length breadth 5 3/4"* Thickness parallel to axis *1 1/2"* Thickness round eye hole *1 1/2"*

Flywheel Shaft, diameter *as per Rule. C' Shaft.* Intermediate Shafts, diameter *as per Rule.* General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

Are means provided to prevent racing of the engine when declutched *Yes* Means of lubrication *Forced* Kind of damper if fitted

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

Lubricating Oil Pumps, No. and size *one 557 gallons/hour.* engine driven.

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. State No. of Report or Certificate.

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. Machine No. *474362/1/08 - /07.*

Pressure of supply *220* volts. Full Load Current *367.* 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. Generators, are they compounded as per Rule. is an adjustable regulating resistance fitted in series with each shunt field.

Are all terminals accessible, clearly marked, and furnished with sockets. *See rept 13.* Are they so spaced

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

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

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

Details of driven machinery other than generator.

PLANS.—Are approved plans forwarded herewith for Shafting. Standard Approved. Receivers. Separate Tanks.

Have Torsional Vibration characteristics if applicable been approved. Armature shaft Drawing No.

SPARE GEAR *? Spares.*

Ruston & Hornsby Limited,  
The foregoing is a correct description,  
*1 hour 26 1/4 47* Manufacturer.  
Oil & Gas Engine Dept.



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Foundation

002401-002409-0132



Dates of Survey while building  
During progress of work in shops - -  
During erection on board vessel - -  
Total No. of visits.

Dates of Examination of principal parts—Cylinders 6.12.46. 11.12.46. 11.12.46. 11.12.46.  
Covers 6.12.46. Pistons 6.12.46. Piston rods.

Connecting rods. 6.1.47. Crank and Flywheel shafts. 6.1.47. Intermediate shafts.

Crank shaft Material Tensile strength LL.1016. T.D.S. RD.8466.  
Elongation Identification Marks LL.1017. T.D.S. RD.1336.

Flywheel shaft, Material Identification Marks.

Identification marks on Air Receivers.

*Certificates for air receivers to be forwarded with next duplicate vessel  
CB Aberdeen*

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

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

These engines have been built under Special Survey in accordance with the approved plans and Regulations of the Society, materials and workmanship being good.

On completion the sets were tried in the Shops under working conditions and found to be satisfactory.

The sets have been forwarded to Aberdeen for installation on board the vessel.

*Personals approved for these engines  
See Nos letters 22.5.47 attached*

*These engines have now been securely fitted on board the vessel,  
tried under working conditions & found satisfactory*

*Clive Bell  
C Aberdeen*

The amount of Fee ... £ 4 : 10 : 0 When applied for 31-3-1947.

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

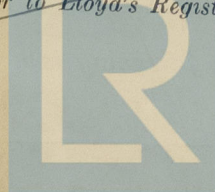
Committee's Minute

FRI. 1 AUG 1947

Assigned

*See F.E. mch. rph*

Surveyor to Lloyd's Register of Shipping.



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