

3523

Rpt. 4c.

REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS~~

No. 514

OCT 14 1940

Received at London Office SHEFFIELD

Date of writing Report 19 When handed in at Local Office 19 Port of

No. in Survey held at Reg. Book. *Lincoln* Date, First Survey *11-7-40* Last Survey *27-9-1940* Number of Visits

on the *Single* *Twin* *Triple* *Quadruple* Screw vessel *new M/V GLOUCESTER* Tons *FORD PORT* Gross Net

Built at *Glasgow* By whom built *A Stephens & Sons Ltd.* Yard No. *575/6* When built

Owners Port belonging to

Oil Engines made at *Lincoln* By whom made *Ruston Hornsby Ltd.* Engine Contract No. *208570* When made *1940*

Generators made at *—* By whom made *—* Contract No. *—* When made *—*

No. of Sets *One* Engine Brake Horse Power *445* Nom. Horse Power as per Rule Total Capacity of Generators *—* Kilowatts.

OIL ENGINES, &c. Type of Engines *8 V.E.B.Z. Vertical* ~~4~~ stroke cycle Single ~~double~~ acting

Maximum pressure in cylinders *675-25%* ~~675-25% Diameter of cylinders *10 1/4"* Length of stroke *14 1/2"* No. of cylinders *8* No. of cranks *8*~~

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *12 5/16"* Is there a bearing between each crank *Yes*

Revolutions per minute *465* Flywheel dia. *4'-6"* Weight *24 1/2 Cwt.* Means of ignition *Diesel* Kind of fuel used *Diesel*

Crank Shaft, dia. of journals as per Rule *8"* as fitted Crank pin dia. *6 1/4"* Crank Webs Mid. length breadth *4 1/2"* Mid. length thickness *3 1/16"* Thickness parallel to axis *—* Thickness around eyehole *—*

Flywheel Shaft, diameter as per Rule *8"* as fitted Intermediate Shafts, diameter as per Rule *—* as fitted Thickness of cylinder liners *7/8"*

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

Cooling Water Pumps, No. *One* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *—*

Lubricating Oil Pumps, No. and size *One*

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 *—*

Pressure of supply *—* volts. Full Load Current *—* Amperes. Direct or Alternating Current *—*

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 *—*

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 *—*

PLANS. Are approved plans forwarded herewith for Shafting *7-7-39* Receivers *—* Separate Tanks *—*

SPARE GEAR *To Rule Requirements*

16/10/40

See Nottingham certificate (on form 10) for particulars of Starbong generator set (similar to above)

The foregoing is a correct description.
R. Coyne
 Manufacturer.
 Oil & Gas Engine Dept.

01145

Dates of Survey while building

{ During progress of work in shops - - { During erection on board vessel - - - { Total No. of visits	11-7-40.	25-7-40.	19-8-40.	24-9-40.	27-9-40.
	5.				

Dates of Examination of principal parts—Cylinders 19-8-40. Covers 19-8-40. Pistons 27-9-40. Piston rods ~~11-7-40.~~

Connecting rods 11-7-40. Crank and ~~Flywheel~~ shafts 25-7-40. Intermediate shafts —

Crank and ~~Flywheel~~ shafts, Material Stn. Steel. Identification Marks 1299, 25-7-40 A.S.

Intermediate shafts, Material — Identification Marks —

Identification marks on Air Receivers —

Is this machinery duplicate of a previous case No If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engine referred to above has been built under Special Survey in accordance with The Rules & Approved Plans.

The materials & workmanship are good

Running tests have been witnessed at the makers works with satisfactory results.

The engine has been despatched to Messrs A. Stephens of Glasgow for fitting aboard the vessel.

Request form attached.
39/13/126. P/13/16022/16027. 3427.

The amount of Fee	£ 79 ...	£ 8 : 16	:	When applied for,	19
Less A/C/R 119				When received,	19
Travelling Expenses (if any)	£	:	:		

For A. Smallie & Self
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 29 JUL 1941**
SEE ACCOMPANYING MACHINERY REPORT.
Assigned



110439.—Transfer. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)