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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 191

Received at London Office

of writing Report 2-1-1947 When handed in at Local Office 19 Port of LEEDS. 17 FEB 1947

o. in Survey held at LEEDS. Date, First Survey 22-10-46 Last Survey 12-12-1946
y. Book. Number of Visits 4

Single
on the Twin } Screw vessel "JEDDY"
Triple }
Quadruple }

Tons { Gross 789.58
Net 454.30

uilt at Greenock By whom built Messrs. George Brown & Co. Yard No. 241 When built 1947.

ners HANS SVENNINGEN. Port belonging to COPENHAGEN

Engines made at Leeds. By whom made Messrs. J & H. McLaren Ltd. Contract No. 30180 When made 1946

Generators made at Loughborough By whom made Messrs. Brush Electrical Co. Contract No. 37993 When made 1946

of Sets One Engine Brake Horse Power 44 Nom. Horse Power as per Rule 11 Total Capacity of Generators 15 Kilowatts.

TYPE OF ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 750 lbs/sq. in Diameter of cylinders 142 mm. Length of stroke 200 mm. No. of cylinders 2 No. of cranks 2

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 169 mm. Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 2'-9" Weight 450 lbs. Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, dia. of journals as per Rule Approved as fitted 72 mm. Crank pin dia. 72 mm. Crank Webs Mid. length breadth 132 mm. Thickness parallel to axis -

as fitted 72 mm. Crank Webs Mid. length thickness 34 mm. Thickness round eyehole -

Flywheel Shaft, diameter as per Rule Coupling as fitted At end of Crankshaft. Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 6.75 mm.

Is there 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 No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Number of Cooling Water Pumps, No. One Piston Type Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Number of Lubricating Oil Pumps, No. and size One Piston Type 55 gallons per hour.

Number of Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Number of Ventilating 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 -

Are 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 -

Number of High Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

Is it seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Number of Working Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -

Is it seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ELECTRIC GENERATORS:—Type Compound Wound Marine Type

Pressure of supply 220 volts. Full Load Current 68 Amperes. Direct or Alternating Current Direct

Is it an alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

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

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

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

Are approved plans forwarded herewith for Shafting 20-5-46 Receivers - Separate Tanks -

(If not, state date of approval) 20-5-46

SHAFTING AND GEAR

Rule Requirements supplied in conjunction with Engine No. 30181.

Greenock, 7th May, 1947.

This engine has been efficiently installed in the vessel in accordance with the approved plan, tested under full load working conditions & found satisfactory.

Please refer to Greenock First Entry Report No 23493 for recommendations as to class.

[Signature]

The foregoing is a correct description,

[Signature] a Deighton for J & H McLaren Ltd Manufacturer.



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003252-003262-0062

Dates of Survey while building { During progress of work in shops - -) 22-10-46, 14-11-46, 6-12-46. 12-12-46.
 { During erection on board vessel - -)
 Total No. of visits.....

Dates of Examination of principal parts—Cylinders..... 22-10-46 Covers..... 22-10-46 Pistons..... 14-11-46 Piston rods..... -

Connecting rods..... 14-11-46 Crank and Flywheel shafts..... - 14-11-46 Intermediate shafts..... -

Crank shaft { Material..... Electric Furnace Steel. Tensile strength..... 50 Tons per square inch.
 { Elongation..... 25% on 2" Identification Marks..... L.R.J. 2938 J.H.N. 14-11-46

Flywheel shaft, Material..... Electric Furnace Steel. Identification Marks..... L.R.J. 2938 J.H.N. 14-11-46

Is this machinery duplicate of a previous case..... NO. 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.)

This engine has been constructed in accordance with approved plans, Secretary's letters and Rule Requirements, and the materials and workmanship are considered satisfactory.

The engine and generator were seen under running conditions on the test bed and found satisfactory under full load conditions.

This Oil Engine Generator Set is, in my opinion, suitable for the purpose intended, and eligible to have the notation **+** DMC when satisfactorily installed in the vessel.

The amount of Fee ... £ 4 : 0 : 0 { When applied for 28-12- 19 46
 Travelling Expenses (if any) £ : 6 : 0 { When received..... 19

D. Shalburn
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... GLASGOW 13 MAY 1947

Assigned..... SEE ACCOMPANYING MACHINERY REPORT



Im. 11, 42.-T (MADE AND PRINTED IN ENGLAND).
 (The Surveyors are requested not to write on or below the space for Committee Minute.)