

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 52

Received at London Office

Surveying Report 7th March 1957 When handed in at Local Office 19 Port of Augsburg

Survey held at Mannheim Date, First Survey 5th March Last Survey 6th March 1957

Number of Visits 2

Single ☒ on the Twin ☐ Triple ☐ Quadruple ☐ Screw vessel ☒ Tons { Gross ☐ Net ☐

By whom built Norrköpings varv- and verkstads Yard No. 1 When built 1957

Port belonging to Norrköping / Sweden

No. and 1 es made at Mannheim By whom made Mot. Werke Mannheim Contract No. 144270 When made 1957

rs made at 1 By whom made 1 Contract No. 1 When made 1

of rivet holes 1 Engine Brake Horse Power 12 M.N. as per Rule 3 Total Capacity of Generators 1 Kilowatts.

ended for essential services 1

GINES, &c.—Type of Engines M.W.M. Standard Type KDW 415 E 2 or 4 stroke cycle 4 Single or double acting Single

n pressure in cylinders 55 atm. Diameter of cylinders 100 mm Length of stroke 150 mm No. of cylinders 1 No. of cranks 1

icated 1.6 bar Firing order in cylinders 1-2-3-4 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 174 mm

a bearing between each crank 1 Moment of inertia of flywheel (16 m² or Kg.-cm.²) 22 Kgs/m² Revolutions per minute 1500

dia 640 mm Weight 114 Kgs Means of ignition coil chamber Kind of fuel used gas oil 0.8

Mid. length breadth 111 mm Thickness parallel to axis 1

Mid. length thickness 32.5 mm Thickness round eyehole 1

as per Rule 1 as fitted 1 Crank pin dia 75 mm Crank Webs 1

Intermediate Shafts, diameter 1 General armature, moment of inertia (16 m² or Kg.-cm.²) 1

as provided to prevent racing of the engine when declutched yes Means of lubrication forced Kind of damper if fitted 1

cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material 1

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

ing Oil Pumps, No. and size 1 cup-wheel type (small)

pressors, No. 1 No. of stages 1 Diameters 1 Stroke 1 Driven by 1

ing Air Pumps, No. 1 Diameter 1 Stroke 1 Driven by 1

ECEIVERS:—Have they been made under Survey 1 State No. of Report or Certificate 1

receiver, which can be isolated, fitted with a safety valve as per Rule 1

internal surfaces of the receivers be examined 1 What means are provided for cleaning their inner surfaces 1

a drain arrangement fitted at the lowest part of each receiver 1

essure Air Receivers, No. 1 Cubic capacity of each 1 Internal diameter 1 thickness 1

, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

Air Receivers, No. 1 Total cubic capacity 1 Internal diameter 1 thickness 1

, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

RIC GENERATORS:—Type 1

of supply 1 volts. Full Load Current 1 Amperes. Direct or Alternating Current 1

ating current system, state the periodicity 1 Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

ff 1 Generators, are they compounded as per Rule 1 is an adjustable regulating resistance fitted in series with each shunt field 1

erminals accessible, clearly marked, and furnished with sockets 1 Are they so spaced

ed that they cannot be accidentally earthed, short circuited, or touched 1 Are the lubricating arrangements of the generators as per Rule 1

nerators are under 100 kw. full load rating, have the makers supplied certificates of test 1 and do the results comply with the requirements 1

nerators are 100 kw. or over have they been built and tested under survey 1

of driven machinery other than generator 1

Are approved plans forwarded herewith for Shafting 9th June 1950 Receivers 1 Separate Tanks 1

rsional Vibration characteristics if applicable been approved 1 Armature shaft Drawing No. 1

GEAR Small parts, according to Makers Specification

The foregoing is a correct description,

MOTOREN - WERKE MANNHEIM A. - O.
VOM BENZ. ABT. STAT. MOTORENBAU

Manufacturer.



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Lloyd's Register
Foundation

012378-012376-0045

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

5 + 6 57 March 1857

Dates of Examination of principal parts—Cylinders 5 + 6 3 57 Covers 5 + 6 3 57 Pistons 5 + 6 3 57 Piston rods

Connecting rods 5 3 57 Crank and Flywheel shafts 6 3 57 Intermediate shafts

Crank shaft Material S. M. Steel Tensile strength 63.4 kg/mm²
Elongation 26.7 + 26.9 % Identification Marks

Flywheel shaft, Material Identification Marks Lloyd's J. R. 1-10/5

Identification marks on Air Receivers

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) subject heavy act and engine

built under special survey, according to the Society's Rules and instructions. The material used in the construction is good and the workmanship satisfactory.

Subject and engine have been tested running and make test and full speed results.

In my opinion, the vessel for which this engine is intended will comply for the regulation of L. M. C. (with date) when the whole vessel has been satisfactorily fitted aboard and tried under full working

The amount of Fee ... Mk. 107.45:

Travelling Expenses (if any) £ 50. —:

When applied for 19

When received 19

Committee's Minute

TUES. 29 JAN 1952

Assigned

See F. E. Moly, rpt.

