

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 111

Date of writing Report 27th Oct. 19... When handed in at Local Office... 19... Received at London Office 5 NOV 1949
 Port of K I E L
 No. in Survey held at K I E L Date, First Survey... Last Survey... 19...
 eg. Book. 22050 on the Single Screw vessel. "SIRETJELL" ex "Picardie" ex "Kollgrim" Number of Visits...
Olav Ringdal at Gothenburg By whom built Eriksberg M.V. Aktiebol. Yard No... When built 1936
Olav Ringdal Port belonging to Oslo
 Engines made at Kiel By whom made Bohn & Kähler Contract No... When made 1949
 Generators made at - By whom made Brown, Boveri & Cie. Contract No... When made -
 of Sets 1 Engine Brake Horse Power 150 M.N. as per Rule... Total Capacity of Generators 100 Kilowatts.
 intended for essential services... yes

ENGINES, &c.—Type of Engines KR 18 2 or 4 stroke cycle 4 Single or double acting single
 max pressure in cylinders 4.8 kg/cm² Diameter of cylinders 190 mm Length of stroke 280 mm No. of cylinders 6 No. of cranks 6
 indicated pressure 6.5 kg/cm² Firing order in cylinders 1.2.3. 6.5.4. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 220 mm
 are a bearing between each crank... yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 260 kg/cm² Revolutions per minute 500
 wheel dia. 1000 Weight 420 kg Means of ignition spontaneous Kind of fuel used gas oil
 Crank Shaft, dia. of journals 105 mm as per Rule... Crank pin dia. 105 mm as fitted... Crank Webs 58 mm Mid. length breadth... 140 mm Mid. length thickness... shrunk Thickness parallel to axis...
 wheel Shaft, diameter directly flanged as per Rule... Intermediate Shafts, diameter as fitted General armature, moment of inertia (16 m² or Kg.-cm.²)...
 means provided to prevent racing of the engine when declutched... Means of lubrication pressure Kind of damper if fitted...
 cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes
 Water Pumps, No. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel...
 Oil Pumps, No. and size 1 gear pump in the engine

Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
 Sucking Air Pumps, No. - Diameter - Stroke - Driven by -

RECEIVERS:—Have they been made under Survey - State No. of Report or Certificate -
 receiver, which can be isolated, fitted with a safety valve as per Rule -
 internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces...
 a drain arrangement fitted at the lowest part of each receiver -
 Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 ss, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -
 Sucking Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -
 ss, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

TRIC GENERATORS:—Type Brown, Boveri & Cie.
 e of supply 220 volts. Full Load Current 430 Amperes. Direct or Alternating Current direct
 ating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 off yes Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field -
 terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced
 led that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes
 nerators are under 100 kw. full load rating, have the makers supplied certificates of test yes and do the results comply with the requirements herewith
 nerators are 100 kw. or over have they been built and tested under survey no (not new)
 of driven machinery other than generator none

Are approved plans forwarded herewith for Shafting Secretary's letter Receivers - Separate Tanks -
 (If not, state date of approval) 23/8/49
 sional Vibration characteristics if applicable been approved herewith Armature shaft Drawing No. -
 (state date of approval)

GEAR as per rule
 The foregoing is a correct description,
+ Kähler Manufacturer.
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40 111

Dates of Survey while building During progress of work in shops - - 7th and 23rd April and 18th May, 1949
During erection on board vessel - - 23rd May and 15th August 1949
Total No. of visits 5

Dates of Examination of principal parts—Cylinders 7/4/49 Covers 7/4/49 Pistons 7/4/49 Piston rods 7/4/49
Connecting rods Crank and Flywheel shafts 7/4/49 Intermediate shafts

Crank shaft Material Identification Marks
Elongation Identification Marks

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case no If so, state name of vessel This engine has been built under survey.

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) This engine has been built under survey, and workmanship and material is good. It has been coupled to a B.B.C. generator and tried under working conditions on the test bed and found satisfactory.

After two hours full load test run, the governors were tested and the generator temperature rise checked and all found good in order.

It is recommended that this unit is eligible for class as contemplated and has been stamped

No. 201
LLOYD'S TEST
18/5/49
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MADE AND PRINTED IN ENGLAND
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 60 : 0 : 0 When applied for 19
Travelling Expenses (if any) £ 1 : 0 : 0 When received 19

FRI. 24 FEB 1950

Committee's Minute
Assigned See minute on R/S



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