

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113

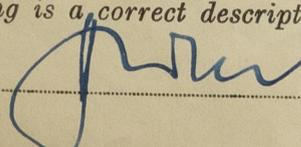
Report 28th Oct. 1949 When handed in at Local Office 19... Port of K I E L
 Received at London Office 5 NOV 1949
 Survey held at K I E L Date, First Survey 20th July Last Survey 18th August 1949
 Number of Visits 34
 Tons { Gross 9829 Net 5827 }
 Underland By whom built Sir J. Laing & Sons, Ltd. Yard No. When built 1941
 S Falkefjell Port belonging to Oslo
 Made at Kiel By whom made Bohn & Kähler Contract No. - When made 1949
 Made at Brown Boveri & Cie. By whom made - Contract No. - When made -
 Engine Brake Horse Power 150 M.N. as per Rule Total Capacity of Generators 200 Kilowatts.
 for essential services yes

ENGINES, &c.—Type of Engines KR 18 2 or 4 stroke cycle 4 Single or double acting single
 Pressure in cylinders 48 kg/cm² Diameter of cylinders 190 mm Length of stroke 280 mm No. of cylinders 6 No. of cranks 6
 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
 Weight between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 260 kg/cm² Revolutions per minute 500
 Weight 420 kg Means of ignition spontaneous Kind of fuel used gas oil
 dia. of journals as per Rule 104.7 (LR) as fitted 105 mm Crank pin dia. 105 mm Crank Webs Mid. length breadth 58 mm Thickness parallel to axis shrunk
 Mid. length thickness 140 mm Thickness round eyehole
 dia. of intermediate shafts as per Rule directly Intermediate Shafts, diameter as fitted flanged General armature, moment of inertia (16 m² or Kg.-cm.²)
 provided to prevent racing of the engine when declutched Means of lubrication pressure Kind of damper if fitted --
 Are the exhaust pipes fitted with safety valves yes Are the exhaust pipes water cooled or logged with non-conducting material yes

Oil 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
 Air Pumps, No. - Diameters - Stroke - Driven by -
 Air Pumps, No. - Diameter - Stroke - Driven by -

RECEIVERS:—Have they been made under Survey - State No. of Report or Certificate -
 Receivers, 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 -
 Receivers in arrangement fitted at the lowest part of each receiver -
 Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -
 Receivers, No. - Total cubic capacity - Internal diameter - thickness -
 welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

GENERATORS:—Type Brown, Boveri & Cie.
 Supply 220 volts. Full Load Current 430 Amperes. Direct or Alternating Current direct
 current system, state the periodicity. ~~direct~~ ~~current~~ Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 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 -
 Are they so spaced yes Are the lubricating arrangements of the generators as per Rule yes
 Generators are under 100 kw. full load rating, have the makers supplied certificates of test yes and do the results comply with the requirements herewith
 Generators are 100 kw. or over have they been built and tested under survey No (not new)
 Other machinery other than generator none
 Approved plans forwarded herewith for Shafting Secretary's letter 23/8/49 Receivers - Separate Tanks -
 Vibration characteristics if applicable been approved herewith Armature shaft Drawing No. -
 as per rule

The foregoing is a correct description,
 + Kähler  Manufacturer.



Dates of Survey while building { During progress of work in shops - - 20th July, 8th and 11th August 1949
 { During erection on board vessel - - - 15/8/49
 Total No. of visits - - -

Dates of Examination of principal parts—Cylinders 20th July 1949 Covers 2nd August 1949 Pistons 2nd Aug. 1949 Piston rods -
 Connecting rods 2nd August 1949 Crank and Flywheel shafts - Intermediate shafts -

Crank shaft { Material S.M. steel forged Tensile strength 65.2 kg/cm² and 65.3 kg/cm²
 { Elongation 26.7% 27.7% Identification Marks Lloyd's J.Q. 6438-39

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 -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These engines have been built under survey and the workmanship and material is good. They have been coupled to two reconditioned B.B.C. generators and tried under working conditions on the test bed and found satisfactory. After two hours full load test runs, the governors were tested and the generator temperature rise checked and all found in order.

It is recommended that both these units are eligible for class as contemplated and have been stamped

LLOYD'S	LLOYD'S
203	205
2-8-49	11-8-49
(E)	(E)

5m. 4. 18. - T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 120 : 0 : 0 When applied for 19
 Travelling Expenses (if any) £ 1 : 10 : 0 When received 19

Committee's Minute
 Assigned See minute a
 RWS

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 Surveyor to Lloyd's Register of Shipping.
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