

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113

Received at London Office 5 NOV 1949

Report 28th Oct. 1949 When handed in at Local Office 19 Port of KIEL
 Survey held at KIEL Date, First Survey 20th July Last Survey 18th August 1949
 Single Screw vessel "HAUKFJELL" Number of Visits 34
 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 420 kg Means of ignition spontaneous Kind of fuel used gas oil
 dia. of journals 105 mm Crank pin dia. 105 mm Crank Webs Mid. length breadth 58 mm Thickness parallel to axis
 as fitted 105 mm Mid. length thickness 140 mm Thickness round eye-hole
 ft, diameter directly Intermediate Shafts, diameter as per Rule
 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 water cooled or logged with non-conducting material yes
 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

Receivers, No. - No. of stages - Diameters - Stroke - Driven by -
 Air Pumps, No. - Diameter - Stroke - Driven by -
 RECEIVERS:—Have they been made under Survey - State No. of Report or Certificate
 er, which can be isolated, fitted with a safety valve as per Rule -
 nal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -
 in arrangement fitted at the lowest part of each receiver -

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
 at they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes
 ors are under 100 kw. full load rating, have the makers supplied certificates of test yes and do the results comply with the requirements herewith
 ors are 100 kw. or over have they been built and tested under survey No (not new)
 ven machinery other than generator none

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

AR as per rule

The foregoing is a correct description,

Manufacturer.



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002442-002448-0260

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
203
2-8-49
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LLOYD'S
205
11-8-49
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5m. 4.18.—T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee 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
VCL/S

Surveyor to Lloyd's Register of Shipping.
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