

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 111

Reporting Report 27th Oct. 19... When handed in at Local Office... 19... Received at London Office 5 NOV 1949... Port of KIEL

Survey held at KIEL Date, First Survey... Last Survey... 19... Number of Visits...

on the ^{Single} ~~Triplex~~ Screw vessel "SIREFJELL" ex "Picardie" ex "Kollgrim" Tons ^{Gross} 84.77

Gothenburg By whom built Eriksberg M.V. Aktiebol. Yard No... When built 1936

Olav Ringdal Port belonging to Oslo

made at Kiel By whom made Bohn & Kähler Contract No... When made 1949

made at - By whom made Brown, Boveri & Cie. Contract No... When made -

1 Engine Brake Horse Power 150 M.N. as per Rule Total Capacity of Generators 100 Kilowatts.

used for essential services... yes

GINES, &c.—Type of Engines KR 18 2 or 4 stroke cycle 4 Single or double acting single

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

rated 16.5 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

bearing between each crank... yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 260 kg/cm² Revolutions per minute 500

in 1000 Weight 420 kg Means of ignition spontaneous Kind of fuel used gas oil

dia. of journals as per Rule... 105 mm Crank pin dia. 105 mm Crank Webs Mid. length breadth 58 mm Thickness parallel to axis... shrunk

shaft, diameter as per Rule... Intermediate Shafts, diameter as per Rule... 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 -

receivers fitted with safety valves... yes Are the exhaust pipes ~~and silencers~~ water cooled ~~or bagged 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

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 -

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 -

in arrangement fitted at the lowest part of each receiver -

Re 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 - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

Are they accessible, clearly marked, and furnished with sockets... yes Are they so spaced

They cannot be accidentally earthed, short circuited, or touched... 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 Receivers - Separate Tanks -

(If not, state date of approval) 23/8/49 Vibration characteristics if applicable been approved herewith Armature shaft Drawing No. -

(state date of approval) as per rule

The foregoing is a correct description,

Kähler Manufacturer.



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

Examination of principal parts—Cylinders 7/4/49 Covers 7/4/49 Pistons 7/4/49 Piston rods 7/4/49

rods Crank and Flywheel shafts 7/4/49 Intermediate shafts

Material Tensile strength

Elongation Identification Marks

Shaft, Material Identification Marks

Identification marks on Air Receivers

Is this a mere duplicate of a previous case no If so, state name of vessel

REMARKS (State quality of workmanship, opinions as to class, etc.) This engine has been built under survey. 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.

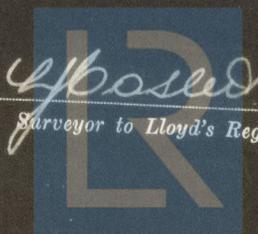
After two hours full load test run, the governors were tested and the generator temperature rise checked and all found in good order.

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

No. 201
LLOYD'S TEST
18/5/49

(5)

... £ 60 : 0 : 0 When applied for 19
... (if any) £ 1 : 0 : 0 When received 19



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