

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 140546

Received at London Office. 27 JAN 1953

of writing Report. 7th Jan. 1953. When handed in at Local Office. 19. Port of Copenhagen

in Survey held at. Helsingør. Date, First Survey. 24th June 1952. Last Survey. 2nd January 1953.

Book. 761 on the T. Single Screw vessel. KIRSTEN SKOU. Number of Visits. 9. Tons. Gross. 4153. Net. 2286.

at. Helsingør. By whom built. Helsingør Shipyard. Yard No. 308. When built. 1953.

ers. Dampskibsselskabet. By whom made. Helsingør Shipyard. Port belonging to. Copenhagen.

Engines made at. Helsingør. By whom made. Helsingør Shipyard. Contract No. 5409. When made. 1952.

ators made at. Helsingør. By whom made. Helsingør Shipyard. Contract No. 3007007. When made. 1952.

of Sets. 1. Engine Brake Horse Power. 30. M.N. as per Rule. Total Capacity of Generators. 15 Kilowatts.

et intended for essential services. Yes.

ENGINES, &c.—Type of Engines. Heavy oil, 2 or 4 stroke cycle. 4. Single or double acting. Single.

imum pressure in cylinders. 65 kg/cm². Diameter of cylinders. 130 mm. Length of stroke. 180 mm. No. of cylinders. 3. No. of cranks. 3.

n indicated pressure. 6.7 kg/cm². Firing order in cylinders. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge. 164 mm.

ere a bearing between each crank. Yes. Moment of inertia of flywheel (16 m² or Kg.-cm.²). 80. Revolutions per minute. 750.

heel dia. 800 mm. Weight. 195 kg. Means of ignition. Compression. Kind of fuel used. Heavy oil.

ank Shaft, dia. of journals. 85 mm. Crank pin dia. 85 mm. Crank Webs. Mid. length breadth. 188 mm. Thickness parallel to axis. 42 mm.

Mid. length thickness. 42 mm. Thickness round eye hole. shrunk.

wheel Shaft, diameter. as per Rule. Intermediate Shafts, diameter. as per Rule. General armature, moment of inertia (16 m² or Kg.-cm.²). as fitted.

means provided to prevent racing of the engine when decoupled. Yes. Means of lubrication. forced. Kind of damper if fitted. as fitted.

the cylinders fitted with safety valves. Yes. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material. lagged.

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

ricating Oil Pumps, No. and size. 1 off. 1.2 m³/h.

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

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

RECEIVERS:—Have they been made under Survey. Yes. State No. of Report or Certificate. 1069.

ach receiver, which can be isolated, fitted with a safety valve as per Rule. Yes.

the internal surfaces of the receivers be examined. Yes. What means are provided for cleaning their inner surfaces. as fitted.

ere a drain arrangement fitted at the lowest part of each receiver. Yes.

Pressure Air Receivers, No. 1. Cubic capacity of each. 45 L. Internal diameter. 270 mm. thickness. 8 mm.

less, lap welded or riveted longitudinal joint. Material. E.W. Range of tensile strength. 41-47 kg/cm². Working pressure by Rules. 25 kg/cm².

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ELECTRIC GENERATORS:—Type. Dry proof, built-in.

ssure of supply. 220 volts. Full Load Current. 68 Amperes. Direct or Alternating Current. AC.

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

nd off. Yes. Generators, are they compounded as per Rule. Yes. Is an adjustable regulating resistance fitted in series with each shunt field. Yes.

all terminals accessible, clearly marked, and furnished with sockets. Yes. Are they so spaced.

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

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

the generators are 100 kw. or over have they been built and tested under survey. Yes.

ils of driven machinery other than generator. An air compressor.

INS.—Are approved plans forwarded herewith for Shafting. Yes. Receivers. Yes. Separate Tanks. Yes.

Torsional Vibration characteristics if applicable been approved. As applicable. Armature shaft Drawing No. as fitted.

RE GEAR supplied as per Rules.

The foregoing is a correct description,

AKTIESELSKABET

for BUREAU & WAIN'S MASKIN- og KØLEBYGGERI

Manufacturer.



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Foundation

003147 - 003153 - 0240

Dates of Survey while building { During progress of work in shops - - 1952: 24/6-24/8;
During erection on board vessel - - 1952: 1/6-3/6-27/6-17/7-19/12-22/12; 1953: 2/1;
Total No. of visits 9

Dates of Examination of principal parts—Cylinders *and* Covers *and* Pistons 22/8-52 Piston rods ✓

Connecting rods 24/6-52 Crank and Flywheel shafts 24/6-52 Intermediate shafts ✓

Crank shaft { Material *See Steel* Tensile strength 34.1 t/d
Elongation 36.4 % on 2" Identification Marks L.N- 8860 - KH - 24-6-52

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers N-1069- LLOYD'S TEST 60 ATM - WP 25 ATM. - K.H. 11.7.51

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The above oil engine generating set has been constructed and installed on board under Special Survey in accordance with the Rules, the approved plan and the requirements contained in the Secretary's letter.

The material used has been examined and tested as required by the Rules and the workmanship is good.

On completion of installation the machinery was in working condition and found in order.

The amount of Fee ... £ 150 - -
Air receiver £ 80 - -
Travelling Expenses (if any) £ 40 - -

When applied for 23/1 1953
When received 19

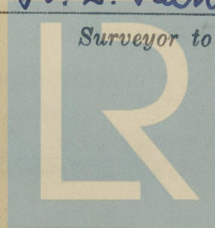
TUES. 10 FEB 1953

Committee's Minute

Assigned

See F.E. msby. apt

A. L. Hansen
Surveyor to Lloyd's Register of Shipping.



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