

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

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 Skibsverft & Maskinbyggeri Yard No. 308. When built 1953.

ers. Dampskibsselskabet - Ole Skov - 9/1. Dampskibsselskabet - Ole Skov - 9/1. Port belonging to Copenhagen.

Engines made at Helsingør. By whom made Helsingør Dieselmotor Fabrik. ENG. Contract No. 5409. When made 1952.

generators made at Odense. By whom made Thomsen B. Prøje. MACH. 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.-m.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 as per Rule. Crank pin dia. 85 mm. Crank Webs Mid. length breadth 188 mm. Thickness parallel to axis 42 mm. shrunk. Mid. length thickness 42 mm. Thickness round eyehole.

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

means provided to prevent racing of the engine when decoupled. Yes. Means of lubrication forced. Kind of damper if 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. No. of stages. Diameters. Stroke. Driven by.

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

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

ch 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.

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

a Pressure Air Receivers, No. Cubic capacity of each. Internal diameter. thickness.

less, lap welded or riveted longitudinal joint. Material. Range of tensile strength. Working pressure by Rules.

ing Air Receivers, No. 1. Total cubic capacity 45 l. Internal diameter 270 mm. thickness 8 mm.

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

ELECTRIC GENERATORS:—Type Dry proof, bench tested.

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

ternating current system, state the periodicity. 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.

he 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.

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

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

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

(If not, state date of approval)

Torsional Vibration characteristics if applicable been approved. Not applicable. Armature shaft Drawing No.

PIRE GEAR supplied as per Rules.

The foregoing is a correct description,

AKTIESELSKABET

for DITMEISTER & WAIN'S MASKIN- og SKIBBYGGERI

Manufacturer.



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Lloyd's Register Foundation

Dates of Survey while building
 During progress of work in shops - - 1952: 24/6-22/8;
 During erection on board vessel - - - 1952: 1/10-3/10-27/10-17/11-19/12-22/12; 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 *Mild Steel* Tensile strength 34.1 t/p
 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 ✓

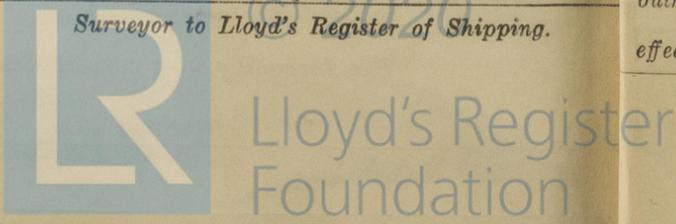
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The above oil engine generating set has been constructed and installed on board under Special Survey in accordance with the Rules, the approved plan and the requirements contained in the Secretary's letters.
 The material used 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 *Sir F.E. Moly, apt*

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



50, 48, - T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)