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D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4616

Received at London Office 6 OCT 1949

Date of writing Report 30/9 1949 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at De Haag Date, First Survey 8/6 Last Survey 22/7 1949
Reg. Book. Number of Visits 2

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel "KORSÖ" BERG Ö
Built at Martenshoek By whom built Rodines Schepman Yard No. 377 When built 1949

Owners..... Port belonging to.....

Oil Engines made at Pilsen By whom made Skoda Werke Contract No. 5550 When made 1949

Generators made at..... By whom made..... Contract No..... When made.....

No. of Sets one Engine Brake Horse Power 30 M.N. as per Rule..... Total Capacity of Generators..... Kilowatts.

Is Set intended for essential services yes

OIL ENGINES, &c.—Type of Engines 2 S 110 Heavy Oil 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 65 kg/cm² Diameter of cylinders 110 mm Length of stroke 150 mm No. of cylinders 2 No. of cranks 2

Mean indicated pressure 7.8 kg/cm² Firing order in cylinders..... Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 137 mm

Is there a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²)..... Revolutions per minute 1500

Flywheel dia..... Weight..... Means of ignition compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule..... as fitted..... Crank pin dia. 70 mm Crank Webs Mid. length breadth 120 mm Thickness parallel to axis..... shrunk Mid. length thickness 16.5 mm Thickness round eye-hole.....

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

Are means provided to prevent racing of the engine when declutched yes Means of lubrication forced Kind of damper if fitted.....

Are the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material.....

Cooling Water Pumps, No. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel.....

Lubricating Oil Pumps, No. and size one, rotary type

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

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

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

Is each receiver, which can be isolated, fitted with a safety valve as per Rule.....

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

Is there a drain arrangement fitted at the lowest part of each receiver.....

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

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

Starting Air Receivers, No. Total cubic capacity..... Internal diameter..... thickness.....

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

ELECTRIC GENERATORS:—Type.....

Pressure of supply..... volts. Full Load Current..... Amperes. Direct or Alternating Current.....

If alternating current system, state the periodicity..... Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown on and off.....

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

Are all terminals accessible, clearly marked, and furnished with sockets..... Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched.....

Are the lubricating arrangements of the generators as per Rule.....

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

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

Details of driven machinery other than generator.....

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

Have Torsional Vibration characteristics if applicable been approved..... Armature shaft Drawing No.....

SPARE GEAR.....

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

002457-002464-0129

Dates of Survey while building:

- During progress of work in shops - - 8/6 22/7 '49
- During erection on board vessel - - -
- Total No. of visits 2

Dates of Examination of principal parts:

- Cylinders 22/7
- Covers 22/7
- Pistons 22/7
- Piston rods
- Connecting rods 22/7
- Crank and Flywheel shafts 22/7
- Intermediate shafts

Crank shaft:

- Material S17 steel
- Elongation
- Tensile strength Brill test = 70 kg/cm²
- Identification Marks

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case. yes If so, state name of vessel. msc Yvonne

GENERAL REMARKS: (State quality of workmanship, opinions as to class, &c.) This engine has not been included under special survey. All working parts examined, cooling spaces hydraulically tested and all found good. Crankshaft Brill tested and found = 70 kg/cm². Seantings checked and found as given on the approved plan. In my opinion this engine is fit to be installed on board of a classed vessel.

100,846-T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 60.- : { When applied for 2-9- 1949 at Rotterdam under report no. 4616
 Travelling Expenses (if any) £ : { When received 16-9- 1949

Committee's Minute FRI. 5 MAY 1950
 Assigned See F.E. Welch. sph.

