

RECEIVED

OCT 1949

Rpt. 4c.
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 Den Haag Date, First Survey 8/6 Last Survey 22/7 1949
Reg. Book.

on the Single Triple Quadruple Screw vessel "KORSÖ" BERGÖ Number of Visits 2
Built at Martenshoek By whom built Rodines Schepswerf 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 eyehole

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 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, roller 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
(If not, state date of approval)

Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.
(state date of approval)

SPARE GEAR

The foregoing is a correct description,

Manufacturer.



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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 Tensile strength Brinell test = 70 kg/cm²
 { Elongation 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 ms. 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 hydrostatically tested and all found good. Crankshaft Brinell tested and found = 70 kg/cm². Sea things checked and found as given on the approved plan. In my opinion this engine is fit to be installed on board of a clamped vessel.

The amount of Fee ... £ 60.- :

Travelling Expenses (if any) £ :

When applied for 2-9-1949 at Rotterdam under report no. 4616
 When received 16-9-1949

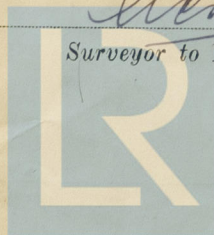
Committee's Minute

Assigned

See F.E. mch. app.

FRI. 5 MAY 1950

Surveyor to Lloyd's Register of Shipping.



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