

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 14646

Received at London Office 6-APR 1954

Writing Report 24 March 1954 When handed in at Local Office 19 Port of Copenhagen

Survey held at Horsens Date, First Survey 12 March Last Survey 19 March 1954

Book No. 54 on the Single Screw vessel m.t. "Esso København" Tons Gross 12062 Net 7146

at Newcastle By whom built Palmers Co. Ltd. Yard No. 1000 When built 1930-11

Engine/made at Horsens By whom made Møller & Jørgensen Engine No. 1087 When made 1954

Generators made at Horsens By whom made Møller & Jørgensen Generator No. - When made -

Sets 1 B.H.P. of each Set 90 M.N. of each Set as per Rule - Capacity of each Generator - Kilowatts -

Intended for essential services Yes

ENGINES, &c.—Type of Engines radical heavy oil ^{solid injection} 2 or 4 stroke cycle 2 Single or double acting single

Indicated pressure in cylinders 50 kg/cm² Diameter of cylinders 180mm Length of stroke 300mm No. of cylinders 2 No. of cranks 2

Indicated pressure 6.5 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 248mm

Clearance between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 500

Crank pin dia. 810mm Weight 625kg Means of ignition compression Kind of fuel used heavy oil

Shaft, Solid forged dia. of journals as per Rule Crank pin dia. 125mm Crank Webs Mid. length breadth 200mm Thickness parallel to axis -

Steel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m² or Kg.-cm.²) -

Means provided to prevent racing of the engine a governor Means of lubrication forced Kind of damper if fitted -

Cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled

Water Pumps, No. and how driven - Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Operating Oil Pumps, No. and size 1 off by engine, capacity 70 l/min

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

Sucking Air Pumps or Blowers, No. 1 off - 1 cyl. 10.9 m³/min How driven by engine

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

Internal surfaces of the receivers be examined and cleaned -

A drain arrangement fitted at the lowest part of each receiver -

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

Material - Range of tensile strength - Working pressure -

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

Material - Range of tensile strength - Working pressure -

ELECTRIC GENERATORS:—Type -

Voltage of supply - volts. Full Load Current - Amperes. Direct or Alternating Current -

Operating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown off -

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

Terminals accessible, clearly marked, and furnished with sockets - Are they so spaced -

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

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

Generators are 100 kw. or over have they been built and tested under survey -

Are approved plans forwarded herewith for Shafting yes Receivers - Separate Tanks -

Resonance Vibration characteristics if applicable been approved no Armature shaft Drawing No. -

Spare gear required by the Rules been supplied yes

The foregoing is a correct description,

Manufacturer.

H. C. Thorsager

Møller & Jørgensen A/S
HORSENS



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Lloyd's Register
Foundation

01218-003306-5237

Dates of Survey while building { During progress of work in shops - - } 12/3 - 19/3 - 54
 { During erection on board vessel - - - }
 Total No. of visits 2

Dates of Examination of principal parts - Cylinders 12/3 Covers 12/3 Pistons 12/3 Piston rods ✓

Connecting rods 12/3 Crank and Flywheel shafts 12/3 Intermediate shafts ✓

Crank shaft { Material _____ Tensile strength _____
 Elongation _____ Identification Marks GS 12-3-54

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 "Esso Odine" : Gen. Rpt. No. 14

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

The above auxiliary engine has been examined when complete overhauled and tested as per certificate herewith and found in good working order.

The engine has been opened up and examined and tested as stated.

The engine has been sold to Messrs Dansk Esso A/S, Copenhagen and intended for installation in the vessel mentioned on the other side.

The procedure of survey has been accepted by the Secretary's letter Eng. dated 6 March, 1954.

The amount of Fee ... £s. 180.- : { When applied for 24/3 19 54
 Travelling Expenses (if any) £s. 130.- : { When received _____ 19 _____

TUESDAY 22 JUN 1954

Committee's Minute _____

Assigned See Kel 1052

P. Swerin
 Surveyor to Lloyd's Register of Shipping.



4m.5.52.-T. (MADE AND PRINTED IN ENGLAND)
 (The Surveys are requested not to write on or below the space for Committee's Minute.)