

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

Number of Visits 2

54 on the Twin Triple Quadruple Screw vessel m.t. "Esso København"

Gross 12062
Net 7146

at Newcastle

By whom built Palmers Ltd. Ltd.

Yard No. 1000 When built 1930-11

Danish Esso A/S.

Port belonging to Copenhagen

Engine made at Horsens

By whom made

Miller & Johansen

Engine No. 1087

When made 1954

Motors made at

By whom made

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 radial heavy oil / solid injection 2 or 4 stroke cycle 2 Single or double acting single

Mean pressure in cylinders 50 kg/cm² Diameter of cylinders 180 mm Length of stroke 300 mm No. of cylinders 2 No. of cranks 2Indicated pressure 6.5 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 248 mmIs there a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 500

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

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

Semi-built dia. of journals as fitted 125 mm Mid. length thickness 65 mm Thickness round eyeballs

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 filled 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

Lubricating 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 cpl. 10.9 m³/min How driven by engine

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

Other than main engines

Full details of safety devices

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

S, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

Air Receivers, No. Total cubic capacity Internal diameter thickness

S, lap welded or riveted longitudinal joint 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

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

Is it noted 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

Other driven machinery other than generator none

Are approved plans forwarded herewith for Shafting yes Receivers Separate Tanks

Vibrational 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.

Senghvi / H. C. Thorsen

Miller & Johansen A/S
HORSSENS

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Foundation

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 Odier." : Gpm. 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 ... £180.-

Travelling Expenses (if any) £130.-

When applied for 24/3 1954

When received 19

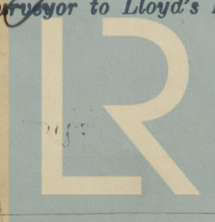
TUESDAY 22 JUN 1954

Committee's Minute

Assigned

See Kel 1052

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation