

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 2772

Received at London Office 4 JAN 1954

Date of writing Report 8th Dec. 1953 When handed in at Local Office 1953 Port of HAMBURG.

No. in Survey held at HAMBURG-NEUENFELDE Date, First Survey 15th October Last Survey 20th Nov. 1953

Reg. Book. 5 40443 on the <sup>Single</sup> ~~Triple~~ ~~Quadruple~~ Screw vessel M.V. "TEXTA" Number of Visits 13

Tons Gross 1153.45 Net 780.74

Built at Hamburg-Neuenfelde By whom built Schiffswerft Wilhelm Holst Yard No. 187 When built 1953

Owners Interamerican Maritime Company, S.A. Port belonging to Monrovia

Oil Engines made at Mannheim By whom made Motorenwerke Mannheim Contract No. 2679/030 When made 1953

Generators made at Hamburg By whom made Hans Still A.G., Contract No. 2679/025 & 714 When made 1953

No. of Sets 2 Engine Brake Horse Power 85 M.N. as per Rule 17 each Total Capacity of Generators 2 x 50 Kilowatts.

Is Set intended for essential services yes

**OIL ENGINES, &c.**—Type of Engines RH 422 S 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders - Diameter of cylinders 150 mm Length of stroke 220 mm No. of cylinders 6 No. of cranks 6

Mean indicated pressure 5.2 Firing order in cylinders - Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 184 mm

Is there a bearing between each crank yes Moment of inertia of flywheel (kg.m<sup>2</sup>) 105 Revolutions per minute 650

Flywheel dia 820 mm Weight 230 kgs Means of ignition compression Kind of fuel used gas oil

Crank Shaft, dia. of journals 100 mm Crank pin dia. 90 mm Crank Webs Mid. length breadth 39 mm Thickness parallel to axis -

as fitted - Mid. length thickness 130 mm Thickness round eyehole -

Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - General armature, moment of inertia (kg.m<sup>2</sup>) 25

as fitted - Are means provided to prevent racing of the engine when declutched yes Means of lubrication forced Kind of damper if fitted none

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

Cooling Water Pumps, No. directly coupled to each motor and E.D. spare pumps Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size each motor has his attached lubricating oil pump - 0.85 m<sup>3</sup>/h

Air Compressor, No. 1 No. of stages 2 Diameters 135/50 mm Stroke 100 mm Driven by clutch coupled by small diesel gear set

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 RH 422 S & M 45 FK/24

Pressure of supply 230 volts. Full Load Current 217 Amperes. Direct or Alternating Current D.C.

Is it an alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

Are all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced

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

Do the 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

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

Are the tails of driven machinery other than generator -

**SHAFTS.**—Are approved plans forwarded herewith for Shafting no Receivers - Separate Tanks none

Do the Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -

**SPARE GEAR** -

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - - } 1953 Oct.: 15, 20, 24, 28, Nov.: 2, 4, 7, 11, 14, 16, 17, 18, 20.  
 Total No. of visits 13.

Dates of Examination of principal parts—Cylinders - Covers - Pistons - Piston rods -

Connecting rods - Crank and Flywheel shafts - Intermediate shafts -

Crank shaft { Material SM Steel Tensile strength } built under the supervision of the Germanischer Lloyd  
 { Elongation Identification Marks }

Flywheel shaft, Material - Identification Marks -

Identification marks on Air Receivers -

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 generator engines were built to Germanischer Lloyd Requirements. The port forward generator engine now completely examined and found all parts in good order. The generator engines examined under no load and full working conditions. Governors tested and all found in good working order. The workmanship of the generator engine now examined is good.

501, 4, 18, - T. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ see: Rpt. :9 { When applied for 19  
 Travelling Expenses (if any) £ - : - : { When received 19

Committee's Minute FRIDAY 15 OCT 1954

Assigned See Rpt. 4.

*[Signature]*  
 Surveyor to Lloyd's Register of Shipping.