

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10924

Received at London Office

Report 19 When handed in at Local Office 19 Port of
 Survey held at Date, First Survey 7-1-53 Last Survey 11-6-1953
 Number of Visits 3
 Single on the Twin Triple Screw vessel M.V. "BAJAN"
 Quadruple
 Draught By whom built SCHEERSWERF JANSSEN N.V. Yard No. J. 129 When built
 GOVERNMENT OF INDONESIA Port belonging to
 Made at AMSTERDAM By whom made KROMHOUT MOTOREN FABRIEK Engine No. 13031 When made 1953
 Made at SLIKKERVEER By whom made SMIT Generator No. 40457 When made 1953
 ONE B.H.P. of each Set 30 M.N. of each Set as per Rule 6 Capacity of each Generator 15 Kilowatts
 Used for essential services Aux

INES, &c. Type of Engines HEAVY OIL ENGINE 3 G.S.V. 108 2 or 4 stroke cycle 4 Single or double acting SINGLE
 Pressure in cylinders 55 KG/CM² Diameter of cylinders 108 MM Length of stroke 152.4 MM No. of cylinders 4 No. of cranks 4
 Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 121 MM
 Moment of inertia of flywheel (16 m² or Kg.-cm.²)
 Revolutions per minute 1000
 Weight 275 KG Means of ignition COMPRESSION Kind of fuel used DIESEL

Solid forged dia. of journals as per Rule AS APP^d Crank pin dia 73 MM Crank Webs Mid. length breadth 112.5 MM Thickness parallel to axis
 Semi-built as fitted 82.55 MM Mid. length thickness 26.15 MM Thickness round eye-holes
 All-built
 Generator armature, moment of inertia (16 m² or Kg.-cm.²)

Provided to prevent racing of the engine YES Means of lubrication FORCES Kind of damper if fitted
 Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

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

Oil Pumps, No. and size ONE 600 LT/HR

Compressors, No. ONE No. of stages TWO Diameters 95 - 110 MM Stroke 85 MM Driven by CLUTCH

Air Pumps or Blowers, No. How driven

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

Tails of safety devices

Internal surfaces of the receivers be examined and cleaned

Main arrangement fitted at the lowest part of each receiver

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

Welded or riveted longitudinal joint Material Range of tensile strength Working pressure

Receivers, No. Total cubic capacity Internal diameter thickness

Welded or riveted longitudinal joint Material Range of tensile strength Working pressure

C GENERATORS: Type G 27/13

Supply 110 volts Full Load Current 130 Amperes Direct or Alternating Current DIRECT

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

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

inals accessible, clearly marked, and furnished with sockets YES Are they so spaced

hat they cannot be accidentally earthed, short circuited, or touched YES Are the lubricating arrangements of the generators as per Rule YES

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

tors are 100 kw. or over have they been built and tested under survey YES

iven machinery other than generator

Are approved plans forwarded herewith for Shafting RETAINED FOR USE Receivers Separate Tanks

al Vibration characteristics if applicable been approved Armature shaft Drawing No.

gear required by the Rules been supplied MAKERS SPARES

The foregoing is a correct description,
 KROMHOUT MOTOREN FABRIEK
 D. G. G. J. N. V. Amsterdam

Manufacturer.



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 Foundation

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Dates of Survey while building { During progress of work in shops - - 7/1/53; 13/1/53; 14/6/53
During erection on board vessel - -
Total No. of visits

Dates of Examination of principal parts - Cylinders 13-1-53 Covers 7-1-53 Pistons 13-1-53 Piston rods

Connecting rods 13-1-53 Crank and Flywheel shafts 7-1-53 Intermediate shafts

Crank shaft { Material S.M. Steel Tensile strength 67.3 kg/mm²
Elongation ON 50MM. 29% Identification Marks LLOYDS No 977 MB 17k. J.D.

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 STANDARD TYPE.

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

This engine has been built under Special Survey in accordance with Society Rules, approved plans & Secretary's letters. The materials used & tested all as required with satisfactory results & the workmanship found upon completion the engine was examined on makers test-bed under load conditions driving generator & air compressor with satisfactory results. This set is in my opinion eligible to merit the favourable consideration of the Committee.

Copy of Amsterdam certificate NOF4094 for crankshaft & copy of certificate for air compressor attached hereto. The certificate for generator is not to be attached.

J.D.

The amount of Fee ... F 55. : When applied for 26.6 1953

Travelling Expenses (if any) £ : : When received 19

Committee's Minute

THURSDAY 19 NOV 1953

Assigned See Rpt 40

J. Dobbie for self & H. A. Surveyor to Lloyd's Register of Shipbuilders



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