

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18498

Received at London Office

Report made on Sept 30 1952 When handed in at Local Office 1952 Port of Amsterdam

Survey held at Amsterdam Date, First Survey 27th June Last Survey Aug 7 1952

Single on the Twin Triple Quadruple } Screw vessel "M.S. MENG-KARA" Tons Gross Net

By whom built Yard No. When built

Werkspoor Amsterdam for Indonesian Government Port belonging to

Made at Amsterdam By whom made Maschinenfabrik Kromhout Eng. Contract No. 12626 When made

Made at Sluiskuisen By whom made Elcker. Techn. Ind. Smit Eng. Contract No. 39109 When made

Engine Brake Horse Power 96 M.N. as per Rule 19 Total Capacity of Generators 60 Kilowatts.

Used for essential services: main engine

GINES, &c.—Type of Engines Heavy oil engine type 89S108 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 8 No. of cranks 8

Firing order in cylinders 1-5-2-6-8-4-3-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 121 mm

Clearance between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 1200

Weight 235 kg Means of ignition Compression Kind of fuel used Diesel oil

Shaft, dia. of journals as per Rule as fitted 82.5 mm Crank pin dia. 73 mm Crank Webs Mid. length breadth as fitted as fitted Mid. length thickness as fitted as fitted Thickness parallel to axis shrunk Thickness round eye-hole

Intermediate Shafts, diameter as per Rule as fitted General armature, moment of inertia (16 m² or Kg.-cm.²)

provided to prevent racing of the engine when declutched yes Means of lubrication forced Kind of damper if fitted

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

Water Pumps, No. 1 cap 1450 lts/hr Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Oil Pumps, No. and size 1 toothed wheel pump cap 600 lts/hr

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

Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey Eng. is started by air starting motor of Williams and James State No. of Report or Certificate

Receiver, which can be isolated, fitted with a safety valve as per Rule

Internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Drain arrangement fitted at the lowest part of each receiver

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

Cap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Air Receivers, No. Total cubic capacity Internal diameter thickness

Cap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type G 340

Supply 115 volts Full Load Current 522 Amperes Direct or Alternating Current Direct

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 yes is an adjustable regulating resistance fitted in series with each shunt field

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

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

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 Legale tested Sea Rotterdam cert No. 13046 dd Sept 1-1952

Driven machinery other than generator

Are approved plans forwarded herewith for Shafting 15-8-52 Receivers Separate Tanks

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

GEAR Complete

The foregoing is a correct description, KROMHOUT MOTOREN FABRIEK D. Goedkoop Jr, N.V. Amsterdam Manufacturer.

J. Randerhall



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Dates of Survey while building: During progress of work in shops - - 27/6 - 3/7 - 26/7 - 7/8-52
During erection on board vessel - - -
Total No. of visits 4

Dates of Examination of principal parts: Cylinders 27-6-52 Covers 27-6-52 Pistons 3-7-52 Piston rods

Connecting rods 3-7-52 Crank and Flywheel shafts 27-6-52 Intermediate shafts

Crank shaft: Material B-Mn Steel Tensile strength 69,6-74,6 kg/cm²
Elongation 22 1/2% Identification Marks Lloyd's 5202 JL 9-4-52
CL 27-6-52

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 set has been built under special survey in accordance with approved plans, Secretary and Society Rules
Materials tested as required and workmanship found good
This set has been tested under full load condition on Makers tested and found functional

Satisfactory
Cert. Amsterdam F 3852 dd 28-6-52 of crankshaft, Makers test cut of generator and cut Rotor
No 13046 dd Sept 1-1952 of generator 39109/10/11/12/13/14/15/16/17 added.

This set merits in my opinion the approval of the Committee
After trials and inspection the set is shipped to Werkspoor Amsterdam for Indonesian Government

5m. 148-T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... of 100.- :
Travelling Expenses (if any) £ : 3.- :
When applied for 10-10 1952
When received 19

Committee's Minute FRI, 19 JUN 1953
Assigned See F.E. usky, sp.

