

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18500

Received at London Office

Report Sept 30 1952 When handed in at Local Office Amsterdam 1952 Port of Amsterdam
 Survey held at Amsterdam Date, First Survey 27th June Last Survey 12th Aug 1952
 Number of Visits 4
 Single on the Twin Triple Quadruple Screw vessel M.V. BURDJAMHAL Tons Gross
 By whom built Werkspoor Amsterdam for Indonesian Government Port belonging to Indonesian Government
 By whom made Motorenfabriek Kromhout Contract No. 12628 When made Eng. 12628
 By whom made N.V. Elektro-Industrie Smid & Co. Contract No. 39113 When made Eng. 39113
 Engine Brake Horse Power 96 M.N. as per Rule 19 Total Capacity of Generators 60 Kilowatts.
 ended for essential services aux engine

GINES, &c.—Type of Engines Heavy oil engine type 89.5 108 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 8 No. of cranks 8
 Firing order in cylinders 1-5-2-6-8-4-7-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 121 mm
 bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 1200 Revolutions per minute 1200
 dia 660 mm Weight 275 kg Means of ignition compression Kind of fuel used Diesel oil
 shaft, dia. of journals as per Rule Crank pin dia. 73 mm Crank Webs Mid. length breadth Thickness parallel to axis shrunk
 as fitted 82.5 mm as fitted plan Thickness round eye hole plan
 Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²) as fitted

as provided to prevent racing of the engine when declutched Yes Means of lubrication forced Kind of damper if fitted -
 cylinders 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 ltr/hr Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 ing Oil Pumps, No. and size 1 turk wheel pump cap 600 ltr/hr
 pressors, No. - No. of stages - Diameters - Stroke - Driven by -

ing Air Pumps, No. - Diameter - Stroke - Driven by -
 RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 4777
 receiver, which can be isolated, fitted with a safety valve as per Rule Yes

internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Yes
 drain arrangement fitted at the lowest part of each receiver Yes

essure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -
 Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -
 lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

RIC GENERATORS:—Type G 340
 of supply 115 volts. Full Load Current 532 Amperes. Direct or Alternating Current Direct
 ating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 if Yes 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 Yes
 ed that they cannot be accidentally earthed, short circuited, or touched - Are the lubricating arrangements of the generators as per Rule Yes
 nerators are under 100 kw. full load rating, have the makers supplied certificates of test - and do the results comply with the requirements Yes
 nerators are 100 kw. or over have they been built and tested under survey Lloyd's tested See Rotterdam cert No 13046 dtd Sept 1-1952

of driven machinery other than generator -
 Are approved plans forwarded herewith for Shafting Yes Receivers - Separate Tanks -
 (If not, state date of approval) 15-8-52 Armature shaft Drawing No. -
 rsional Vibration characteristics if applicable been approved - (state date of approval) -

GEAR Complete

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



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Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - }
Total No. of visits

27/6- 3/7- 26/7- 12/8- '52

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 A 120 Steel
Elongation 22 1/2 %

Tensile strength 69,6-71,6 kg/mm²
Identification Marks Lloyd's 522 JL 9-4-51
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, etc.)

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 test bed and found functioning satisfactory

Copy cert. Amsterdam F 3052 dt. 28-6-52 of Crankshaft and Makers test cert of generator 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

The amount of Fee ... 100. -

When applied for 10-10 1952

Travelling Expenses (if any) £ 3-7

When received 19

Committee's Minute THURSDAY 29 OCT 1953

Assigned See Rpt. 46

Surveyor to Lloyd's Register of Shipping

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