

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18500

Received at London Office

Report made on 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. 12620 When made Eng. No. 12620
By whom made N.V. Electro Techn. Industrie Smilde Co. Contract No. 39113 When made Eng. No. 39113
Engine Brake Horse Power 96 M.N. as per Rule 19 Total Capacity of Generators 60 Kilowatts.
ended for essential services aux engine

ENGINES, &c.—Type of Engines Heavy oil engine type SFS 108 2 or 4 stroke cycle 4 Single or double acting Single
Pressure in cylinders 55 kg/cm² Diameter of cylinders 100 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
Revolutions per minute 1200
Moment of inertia of flywheel (16 m² or Kg.-cm.²) 275 Kg Kind of fuel used Diesel oil
Weight 275 Kg Means of ignition Compression
Crank pin dia. 73 mm Crank Webs shrunk
Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²) as per Rule

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
Oil Pumps, No. and size 1 turbed wheel pump cap 600 ltr/hr
Compressors, No. — No. of stages — Diameters — Stroke — Driven by —
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 —
Drain arrangement fitted at the lowest part of each receiver Yes
Pressure 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 —

ALTERNATING CURRENT GENERATORS:—Type G 340
of supply 115 volts. Full Load Current 532 Amperes. Direct or Alternating Current Direct
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 Yes is an adjustable regulating resistance fitted in series with each shunt field Yes
Terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced Yes
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
Generators 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

Are approved plans forwarded herewith for Shafting 15-8-52 Receivers — Separate Tanks —
Resonant 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. Randerball



Jm
30
10
52

Dates of Survey while building { During progress of work in shops - - } 27/6 - 3/7 - 26/7 - 12/8 - 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 A No. Steel Tensile strength 69,6-71,6 kg/cm²
 Elongation 22 1/2 % 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

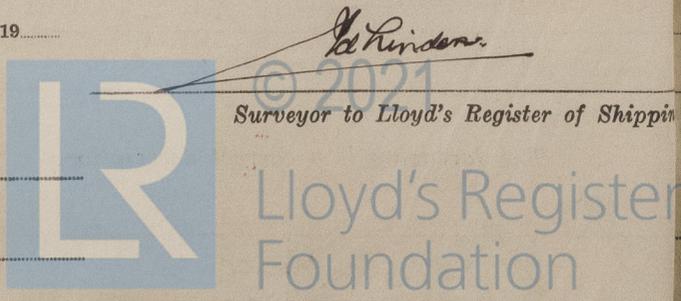
GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.)

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 19 52.
 Travelling Expenses (if any) £ 3 - - { When received 19

Committee's Minute THURSDAY 29 OCT 1953

Assigned See Rpt. 46



501, 488, -T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)