

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18497

Received at London Office

Writing Report Sept 30 1952 When handed in at Local Office 19 Port of Amsterdam
 Survey held at Amsterdam Date, First Survey 27th June Last Survey Aug 6 1952
 Number of Visits 4
 on the Single Screw vessel MS. MENGKARA Tons Gross Net
 By whom built Yard No. When built
 Workshop Amsterdam for Indonesian Government Port belonging to
 Engines made at Amsterdam By whom made Motorenfabriek Kromhout Contract No. 12625 When made
 Motors made at Slikkerveer By whom made N.V. Elect. Techn. Industrie Smit Contract No. 39114 When made
 Sets 1 Engine Brake Horse Power 96 M.N. as per Rule 19 Total Capacity of Generators 60 Kilowatts.
 Intended for essential services aux engine

ENGINES, &c.—Type of Engines Heavy oil engine type DGS 108 2 or 4 stroke cycle 4 Single or double acting Single
 Mean 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
 Indicated pressure 37.7 kg/cm² 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
 Distance between each bearing yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 1200
 Crank pin dia. 66 mm Weight 275 kg Means of ignition Compression Kind of fuel used Dist oil
 Shaft, dia. of journals as per Rule as app. plan Crank pin dia. 73 mm Crank Webs shrunk Mid. length breadth as app. Thickness parallel to axis
 as fitted 82.5 mm Mid. length thickness plan Thickness round eye hole
 Wheel Shaft, diameter Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)
 as fitted as fitted

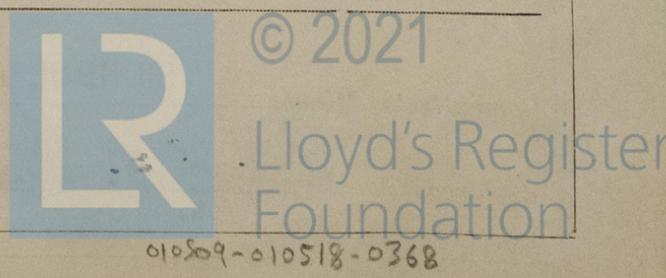
Means provided to prevent racing of the engine when declutched yes Means of lubrication forced Kind of damper if fitted
 Cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled on lagged with non conducting material yes
 Water Pumps, No. 1 Cap. 1450 lts/hr. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size 1 toothed wheel pump cap 600 lts/hr.
 Compressors, No. No. of stages Diameters Stroke Driven by
 Sucking Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey Eng. No. 34991 reg. No. 1789 State No. of Report or Certificate
with an flum trans as receivers
 receiver, which can be isolated, fitted with a safety valve as per Rule
 Are the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 Is a drain arrangement fitted at the lowest part of each receiver
 Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 Material Range of tensile strength Working pressure by Rules
 Sucking Air Receivers, No. Total cubic capacity Internal diameter thickness
 Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type G 340
 Voltage of supply 115 volts. Full Load Current 522 Amperes. Direct or Alternating Current Direct
 Alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown off 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
 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 Lloyd's tested see Rotterdam cert. No. 13046 dtd Sep 1-1952

Are approved plans forwarded herewith for Shafting 15-8-52 Receivers Separate Tanks
 Personal Vibration characteristics if applicable been approved Armature shaft Drawing No.
 RE GEAR Complete

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



JM
 30/10/52

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Dates of Survey while building { During progress of work in shops - - } 27/6 - 3/7 - 26/7 - 6/8-52
{ 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 Cr-Mn steel Tensile strength 69.6 - 71.6 kg/cm²
Elongation 22 1/2% Identification Marks Loko 522C JL9-4-51
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, &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 test bed and found functioning satisfactory

Copy Cert. Amsterdam F3852 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 Westpoort Amsterdam for Indonesian Government

500.4.48.—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.- When applied for 10-10-19 52
Travelling Expenses (if any) £ 3.- When received 19

Committee's Minute FRI. 19 JUN 1953
Assigned See F.E. Welch spf.

