

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18499

Received at London Office

ing Report Sept 30 1952 When handed in at Local Office 19 Port of Amsterdam

Survey held at Amsterdam Date, First Survey 23th June Last Survey Aug 11 1952

on the Single Screw vessel M.S. "MENKARA" Number of Visits 4 Tons { Gross... Net...

By whom built... Yard No... When built...

Workshop Amsterdam for Indonesian Government Port belonging to...

made at Amsterdam By whom made Motorenfabriek Kromhout Eng. No. 12627 When made...

made at Sluiserveen By whom made N.V. Elekt. techn. Industrie Smid Eng. No. 39110 When made...

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

ded for essential services aux engine

GINES, &c.—Type of Engines Heavy oil engine type 89S 100 2 or 4 stroke cycle 4 Single or double acting Single

pressure in cylinders 5.5 kg/cm<sup>2</sup> Diameter of cylinders 108 mm Length of stroke 154 mm No. of cylinders 8 No. of cranks 8

ted 7.7 kg/cm<sup>2</sup> Firing order in cylinders 1-5-2-6-8-4-3-7 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 121 mm

earing between each crank yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)... Revolutions per minute 1200

ia 660 mm Weight 275 kg Means of ignition compression Kind of fuel used Diesel oil

as per Rule Crank pin dia. 73 mm Crank Webs Mid. length breadth as per Rule Thickness parallel to axis...

Mid. length thickness as per Rule Thickness round eyehole...

shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)...

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

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

ter Pumps, No. 1 Cap 1450 lbs/hr Is the sea suction provided with an efficient strainer which can be cleared within the vessel...

Oil Pumps, No. and size 1 turbed wheel pump Cap 600 lbs/hr

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

Air Pumps, No... Diameter... Stroke... Driven by...

EIVERS:—Have they been made under Survey Eng. No. 349291 State No. of Report or Certificate 4773 with an from main as received

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

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

ain arrangement fitted at the lowest part of each receiver...

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

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

Receivers, No... Total cubic capacity... Internal diameter... thickness...

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

GENERATORS:—Type G 340

upply 115 volts. Full Load Current 522 Amperes. Direct or Alternating Current Direct

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...

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

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

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

ors are 100 kw. or over have they been built and tested under survey Lloyd's tested see cert Rotterdam No 13046 dt. Sep 1-1952

iven machinery other than generator...

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

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

AR Complete

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr, N.V. Amsterdam

Manufacturer.



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Lloyd's Register Foundation

010509-010518-0370



B 18563  
4<sup>C</sup> 18799

27/6 - 3/7 - 26/7 - 11/8-52

Dates of Survey while building  
During progress of work in shops - -  
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 Q No Steel Tensile strength 69.6 - 71.6 kg/mm<sup>2</sup>  
Elongation 22 1/2 % Identification Marks 404. 52. 1. J. L. 9-4. CL 27-6-52

Flywheel shaft, Material

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 functional

Satisfactory  
Cert. Amsterdam F 3852 dd. 28-6-52 of Crankshaft and Makers test cut of general 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

501.4.18-1. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ...

100.-

When applied for 10-10 19.52

Travelling Expenses (if any) £

3.-

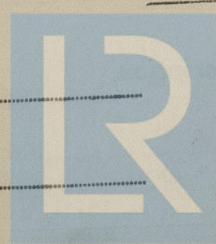
When received 19.

Committee's Minute

FRI. 19 JUN 1953

Assigned

Su F. E. mclay. rpt



Surveyor to Lloyd's Register of  
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Foundation