

# 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 27th June Last Survey Aug 11 1952  
Number of Visits 4

on the Single Screw vessel M.S. "MENKARA" Tons Gross  
Triple Net  
Quadruple

By whom built Werkspoor Amsterdam for Indonesian Government Yard No.            When built           

made at Amsterdam By whom made Motorenfabriek Kromhout Eng. Contract No. 12627 When made             
made at Sluiskeervee By whom made N.V. Elekt. techn. Industrie Smit Eng. Contract No. 39110 When made           

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 89S100 2 or 4 stroke cycle 4 Single or double acting Single  
pressure in cylinders 5.5 kg/cm<sup>2</sup> Diameter of cylinders 100 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 1-5-2-6-8-4-7-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 121 mm  
ure 7.7 kg/cm<sup>2</sup> bearing 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 295 kg Means of ignition Compression Kind of fuel used Diesel oil

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

haft, 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>)  
as fitted            as fitted           

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 toothed 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. started by air starting motor of Williams and James State No. of Report or Certificate 4773 with air from main air receiver  
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 Lamps tested see cert Rotterdam No 13046 dt. Sept 1-1952

ven machinery other than generator             
re approved plans forwarded herewith for Shafting 15-8-52 Receivers            Separate Tanks             
(If not, state date of approval)

l Vibration characteristics if applicable been approved            Armature shaft Drawing No.             
(state date of approval)

AR Complete

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



B 18563  
4C 18799

Dates of Survey while building  
 During progress of work in shops - - ) 27/6 - 3/7 - 26/7 - 11/8 - '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 Q No Steel Tensile strength 69.6 - 71.6 kg/mm<sup>2</sup>  
 Elongation 22 1/2 % Identification Marks 4046. 522A J.L. 9-4  
 Flywheel shaft, Material Identification Marks CL 27-6-52  
 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 F3852 dd. 20-6-'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, 1, 188 - 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 ... £ 100.- } When applied for 10-10 19.52  
 Travelling Expenses (if any) £ 3.- } When received 19

*[Signature]*  
 Surveyor to Lloyd's Register of

Committee's Minute  
 Assigned *Sir F. E. Melby, rpt*  
 FRI. 19 JUN 1953

