

14724C.  
June 1, 1936

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. 9746

Received at London Office

-9 NOV 1936

16-9-36 Kob.  
of writing Report

19 When handed in at Local Office

19 Port of

KOBE

in Survey held at  
Book.

Date, First Survey 27th JAN 35 Last Survey 11 SEP 36

Number of Visits

on the ~~Single~~  
~~Triple~~  
~~Quadruple~~ Screw vessel

M.V. AKAGI MARU

Tons { Gross  
Net

at Nagasaki

By whom built Mitsubishi Jukogyo K.K.

Yard No. 627 When built 1936-9

ers NIPPON YUSEN KAISHA

Port belonging to TOKIO

Engines made at Kobe

By whom made Mitsubishi Jukogyo K.K. Kobe

Contract No. 598 When made 1936

erators made at Nagasaki

By whom made Mitsubishi Jukogyo

Contract No. When made 1936

of Sets 1 Engine Brake Horse Power 45 Nom. Horse Power as per Rule 10 Total Capacity of Generators 30 Kilowatts.

ENGINES, &c. Type of Engines MRW3 Vertical trunk piston 2 or 4 stroke cycle 4 Single or double acting Single

imum pressure in cylinders 47 kg/cm<sup>2</sup> Diameter of cylinders 150 mm Length of stroke 230 mm No. of cylinders 3 No. of cranks 3

of bearings, adjacent to the Crank, measured from inner edge to inner edge 175 mm Is there a bearing between each crank Yes

utions per minute 650 Flywheel dia. 840 mm Weight 494 kg Means of ignition Airless Kind of fuel used Heavy Oil

nk Shaft, dia. of journals as per Rule 85 mm as fitted 92 mm Crank pin dia. 92 mm Crank Webs Mid. length breadth 136 mm Mid. length thickness 48 mm Thickness parallel to axis Thickness around eyehole

wheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 14 mm

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced lubrication

the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes

oling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

orinating Oil Pumps, No. and size 1, gear type

Compressors, No. None No. of stages Diameters Stroke Driven by

evenging Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

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

here a drain arrangement fitted at the lowest part of each receiver

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

mless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

orting Air Receivers, No. 1 Total cubic capacity 35 litres Internal diameter 190 mm thickness 7.5 mm

mless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 44-55 kg/cm<sup>2</sup> Working pressure by Rules 30 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type D.C. COMPOUND

essure of supply volts. Load Amperes. Direct or Alternating Current DIRECT

alternating current system, state frequency of periods per second

s the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES

nerators, do they comply with the requirements regarding rating Yes are they compound wound Yes

they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

in adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

ANS. Are approved plans forwarded herewith for Shafting 12/11/35 Receivers 12/11/35 Separate Tanks

ARE GEAR

See separate list

The foregoing is a correct description.

D. Schumacher

Manufacturer.



© 2021

Lloyd's Register  
Foundation

006930-006941-0093



1935.  
 Dates of Survey while building { During progress of work in shops - - Jan. 27, Feb. 5, March 13, 23, April 23, May 13, 19, 25, June 2, 3, 4.  
 { During erection on board vessel - - -  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 23/3/36 Covers 23/3/36 Pistons 9/4/36 Piston rods

Connecting rods 9/4/36 Crank and Flywheel shaft 13/3/36 Intermediate shaft ✓

Crank and Flywheel shafts, Material Forged Mild Steel Identification Mark No 5263

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

*This engine has been constructed under special survey in accordance with the Rules and approved plans.  
 The materials and workmanship are good.  
 Stamped as follows:—*

Machine No. 598

LLOYD'S

NO. 108 R

Y.H. 3-6-36

*This machine has been efficiently installed on board & tested under full load, overload & working conditions with satisfactory results. It has also been tried using one cylinder as an air compressor pumping up the Aux. Starting air tank & found satisfactory. After completion of trials all parts of this machine were opened up & examined & found in good order. This machinery is eligible in our opinion to be classed + L.M.C. 9.36 in the Register Book.*

The amount of Fee ... £ 150

Travelling Expenses (if any) £

When applied for,

19...

When received,

27.11.19.36

*J. Hamada* & *H. Buchanan*  
 asst. Surveyor to Lloyd's Register of Shipping.

FRI. 13 NOV 1936

Committee's Minute

Assigned

*See Nav. J.C. 2176*

Rpt. 13.

REP

Date of writing Report

No. in Survey Reg. Book.

87208 on the

Built at

Owners Nippo

Electric Light

Is the Vessel fitted

System of Distribution

Pressure of supply

Direct or Alternating

If alternating current

Has the Automati

Generators, do the

are they over compo

Where more than o

series with each shu

Are all terminals ac

short circuited, or to

Position of Gene

is the ventilation in

if situated near

are their axes of ro

Earthing, are the

their respective gene

Main Switch Bo

a fuse on each insul

Switchboards, an

are they protected fr

woodwork or other

are they constructed

permanently high in

with mica or mica

and is the frame eff

Yes

Yes

bars.

Main Switchgear

switch and

lag device

for each of

release, rev

d.p.fuse or

Instruments on

Earth Testing, s

switches.

Switches, Circu

Joint Boxes Sec



© 2021

Lloyd's Register Foundation