

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 7111.

Received at London Office

28 NOV 1930

Report made at Kobe 1-10-30 19 When handed in at Local Office 13-10-30 19 Port of Kobe
 Date, First Survey 18 January 1930 Last Survey 10 Sept. 1930
 Number of Visits 57

Single the Twin Triple Quadruple Screw vessel Asama Dockyard No 270 Tons Gross
Yokohama By whom built Asama Dockyard Yard No 270 When built

Port belonging to Kobe made at Kobe By whom made Kobe Steel Works Contract No. 104 When made 1930

made at Tsurumi By whom made Tsurumi Seizo K.K. Contract No. 38 When made 1930

Engine Brake Horse Power 175 Nom. Horse Power as per Rule 114 Total Capacity of Generators 345 Kilowatts.

Types, &c. Type of Engines 43-C.S.A. Airless Injection 2 or 4 stroke cycle 4 Single or double acting Single

are in cylinders 43 kg/cm² Diameter of cylinders 290 mm Length of stroke 430 mm No. of cylinders 3 No. of cranks 3

, adjacent to the Crank, measured from inner edge to inner edge 350 mm Is there a bearing between each crank yes

minute 335 Flywheel dia. 1200 mm Weight 3660 Kg. Means of ignition Compression Kind of fuel used Heavy oil

as per Rule 157 mm dia. of journals 184 mm Crank pin dia. 184 mm Crank Webs Mid. length breadth 282 mm Thickness parallel to axis shrunk

as fitted 184 mm Mid. length thickness 93 mm Thickness around eyehole shrunk

as per Rule shrunk Intermediate Shafts, diameter as per Rule shrunk Thickness of cylinder liners Top 26 mm Bottom 20 mm

other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Forced

is fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Exhaust Pipes water cooled Silencers lagged with Silicate Cotton

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

Oil Pumps, No. and size 1 Gear Pump P.C.D. of Wheel Teeth 54 mm N° of TEETH 12 LENGTH of TOOTH 105 mm

ors, No. 1 No. of stages 1 Diameters 105 mm Stroke 105 mm Driven by Engine

ir Pumps, No. 1 Diameter 105 mm Stroke 105 mm Driven by Engine

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

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

arrangement fitted at the lowest part of each receiver

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

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

Receivers, No. Total cubic capacity Internal diameter thickness

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

GENERATORS:—Type Compound Wound D.C.

upply 230 volts. Load 500 Amperes. Direct or Alternating Current Direct

urrent system, state frequency of periods per second 50

natic Governor been tested and found efficient when the whole load is suddenly thrown on or off Noted, efficient

o they comply with the requirements regarding rating yes are they compound wound yes

mpounded 5 per cent. yes, if not compound wound state distance between each generator 50 mm

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

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

e approved plans forwarded herewith for Shafting 16 May 1930 Receivers. Separate Tanks

EAR As per accompanying list

Register

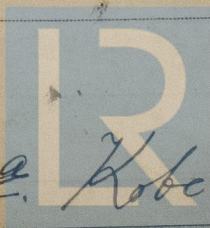
6 foregoing is a correct description,

Manufacturer.

H. Ikeda

Kobe Steel Works

007553-007562-0249



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Lloyd's Register Foundation

Dates of Survey while building { During progress of work in shops - - Jan 1930. 18. 21. 24. 28. Feb. 6. 18. 20. 21. 24. 25. 27. March. 1. 12. 13. 14. 17. 18. 22. 24. 26. April. 1. 4. 8. 9. 14. 15. May. 9. 10. 12. 13. 21. 22. 23. 26. 29. 30 June 3. 4. 6. 7. 9. 12. 20. 24. 27. July 2. 24. August 7. 21. Sept. 3. Total No. of visits *in works 57*

Dates of Examination of principal parts - Cylinders *4.5.30 3.6.30 24.6.30* Covers *4.6.30 12.6.30 6.6.30 20.6.30 7.6.30 24.7.30* Pistons *10.5.30 12.5.30 17.5.30* Piston rods held at *Steel*
 Connecting rods *22.3.30, 15.4.30, 12.6.30* Crank and Flywheel shaft *24.3.30, 4.4.30, 19.4.30 24.4.30, 9.6.30* Intermediate shaft *Intermediate shafts, Material* Identification Mark *LLOYD'S N° 2529 9.6.30 A.D.M.R.*
 Crank and Flywheel shaft, Material *tried Steel* Identification Mark *LLOYD'S N° 2529 9.6.30 A.D.M.R.* If so, state name of vessel *no*

Is this machinery duplicate of a previous case *no* General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery herein described constructed under Special Survey in accordance with the Rules and approved by the Surveyor. The materials and workmanship are good and the test bed results satisfactory. The three auxiliary engines are being forwarded to Yokohama, and will be completed for Asano Dockyard Co. N° 270, where the survey will be completed. A copy of this report has been forwarded to Yokohama Surveyors. Auxiliary Diesel Engines stamped thus:-*

<i>K.S.W 141</i>	<i>K.S.W 142</i>	<i>K.S.W 143</i>
<i>LLOYD'S</i>	<i>LLOYD'S</i>	<i>LLOYD'S</i>
<i>N° 2526</i>	<i>N° 2527</i>	<i>N° 2528</i>
<i>8.9.30</i>	<i>10.9.30</i>	<i>8.9.30</i>
<i>A.D.M.R.</i>	<i>A.D.M.R.</i>	<i>A.D.M.R.</i>

Certificate (if required) to be written on or below the space for Committee's Minute.

The amount of Fee ... *£ 675-* : When applied for, *23rd Oct 1930*
 Travelling Expenses (if any) £ *10-* : When received, *31.12.30*

Committee's Minute
 Assigned

See YKa 26 H640

Ad Morrison
 Surveyor to Lloyd's Register of Shipping
 TUE. 10 NOV 1931
 TUE. 17 NOV 1931
 FRI. 28 JUL 1933
 TUE. 1 MAR 1933
 FRI. 16 SEP 1932
 TUE. 25 APR 1933

