

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1422

Received at London Office 14 JUL 1953

4c. of writing Report 19 When landed in at Local Office 8 JUL 1953 Port of KOBE
 in Survey held at Kobe and Osaka Date, First Survey 20th Aug., 1952 Last Survey 2nd May, 1953
 Book. Number of Visits 39
 Single on the ~~XXXX~~ Screw vessel M.V. "SHOSEI MARU" Tons Gross 7199.23 Net 4175.29
 at Osaka, Japan By whom built Fujinagata Shipbuilding Co., Ltd. Yard No. 30 When built May, 1953.
 Matsuo Kisen K.K. Port belonging to Ashiya, Japan
 Engines made at Kobe, Japan By whom made Hanshin Diesel Works, Ltd. Engine No. 5N-2604 When made May, 1953.
 Generators made at Himeji, Japan By whom made Nishishiba Denki K.K. Generator No. 5258149 When made May, 1953.
 of Sets 2 B.H.P. of each Set 250 M.N. of each Set as per Rule 50 Capacity of each Generator 200 K.V. Kilowatts
 et intended for essential services Yes

ENGINES, &c. Type of Engines 5N Trunk piston solid injection type or 4 stroke cycle 4 Single or double acting single
 imum pressure in cylinders 50 kg/cm² Diameter of cylinders 270mm Length of stroke 370mm No. of cylinders 5 No. of cranks 5
 n indicated pressure 6.5 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 312mm
 ere a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 35800000 kg.-cm.² Revolutions per minute 400
 wheel dia. 1550mm Weight 2100 kgs Means of ignition Solid Kind of fuel used Diesel Oil
 nk Shaft, Solid forged dia. of journals as per Rule As approved 190mm Crank pin dia. 172mm Crank Webs Mid. length breadth 280mm Thickness parallel to axis -
 as fitted 190mm Mid. length thickness 80mm Thickness round eye hole -
 wheel Shaft, diameter as per Rule - Generator armature, moment of inertia (16 m² or Kg.-cm.²) 8300000 kg.-cm.²

means provided to prevent racing of the engine Yes Means of lubrication Forced lubrication Kind of damper if fitted -
 the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes
 ling Water Pumps, No. and how driven 2-motor driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 1 Lubricating Oil Pumps, No. and size 1 x 2700 litre/hour for each set
 ry Compressors, No. 2 No. of stages 2 Diameters HP3" LP9 1/2" Stroke 6" Driven by Dynamo engine

enging Air Pumps or Blowers, No. - How driven -
 RECEIVERS: Have they been made under Survey Yes State No. of Report or Certificate AR-14445
 (other than main engines) Safety valve & fusible plug
 e full details of safety devices Yes
 the internal surfaces of the receivers be examined and cleaned Yes
 ere a drain arrangement fitted at the lowest part of each receiver Yes
 h Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 less, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -
 ting Air Receivers, No. 1 Total cubic capacity 390 liter Internal diameter 500mm thickness 12mm
 less, lap welded or riveted longitudinal joint Riveted joint Material O.H. Steel Range of tensile strength 51.8 kg/mm² Working pressure 25 kg/cm²

ELECTRIC GENERATORS: Type TAK 450V A.C. 3 phase Drip proof
 sure of supply 450 volts Full Load Current 256 Amperes Direct or Alternating Current Alternating Current
 Alternating current system, state the periodicity 60 cycle Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 nd off Yes Generators, are they compounded as per Rule - is an adjustable regulating resistance fitted in series with each shunt field Yes
 all terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced
 hielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes
 e generators are under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements
 e generators are 100 kw. or over have they been built and tested under survey Yes
 ils of driven machinery other than generator 220M³/Hx25kg/cm² Main Air compressor coupled by magnet clutch each.

INS. Are approved plans forwarded herewith for Shafting 23rd December, 1952 Receivers 31st Dec., 1952 Separate Tanks 13th Feb., 1953.
 (If not, state date of approval)
 e Torsional Vibration characteristics if applicable been approved 17th February, 1953 Armature shaft Drawing No. P-1070235
 (State date of approval and name of previous duplicate case, if any)
 the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

Fujinagata Shipbuilding Co., Ltd. N. Hasegawa Manufacturer.
 Manager to Hanshin Diesel Works, Ltd.



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1, 17, 1, 10, 17, 7,
2, 18, 3, 12, 23, 14,
8, 21, 5, 13, 24, 17,
12, 25, 8, 15, 26, 53-Dec. 19,
14, 29, 9, 16, 29, 30,
20, 5, 10,
52-Aug. 27, 52-Sep. 9, 52-Oct. 16, 52-Nov. 14, 52-Dec. 8, 53-Dec. 19,
During progress of work in shops - -
Dates of Survey while building 1953-April, 14, 30 May, 2
Total No. of visits 39
(5N-2604) 15-12-52 5-12-52 10-12-52
(5N-2605) 10-12-52 9-12-52 12-12-52
Dates of Examination of principal parts - Cylinders Covers Pistons Piston rods
5-12-52 (5N-2604) 15-12-52 (5N-2604)
Connecting rods 5-12-52 (5N-2605) Crank and Flywheel shafts 9-12-52 (5N-2605) Intermediate shafts
28.6, 29.2 1/in (5N-2604)
28.6, 28.0 " (5N-2605)
Crank shaft Material Forged Steel Tensile strength LLOYD'S No. 01-CK178 K015-12-5
36.6%, 34.0% Identification Marks " 01-CK177 KT 9-12-5
Elongation 36.0%, 36.2% Identification Marks -
Flywheel shaft, Material - Identification Marks -
Identification marks on Air Receivers No. AR 478 LLOYD'S TEST W.T.P. 39kg/cm² W.P. 25kg/cm² SM 25-3-53 LR

Is this machinery duplicate of a previous case. No If so, state name of vessel -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Auxiliary Oil Engines have been const
under Special Survey in accordance with the Rules, Approved Plans, and Secretary's Letters.

The materials and workmanship are sound, good and free from defect.
The Auxiliary Oil Engines have been examined under working condition during shop and comprehe
sea trials and found satisfactory.

The amount of Fee ... £ 76.00.00

When applied for 27. MAY 1953

Travelling Expenses (if any) £ :

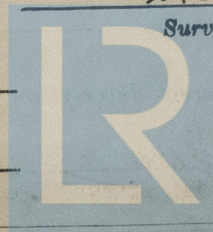
When received 19

Committee's Minute

FRIDAY 28 AUG 1953

Assigned

Su F. E. maly. sp.



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