

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 28896Received at London Office 17 DEC 1953

of writing Report 10-12-1953 When handed in at Local Office 11-12-1953 Port of ANTWERP
 in Survey held at ANTWERP & GHEENT Date, First Survey 4th Dec 1952 Last Survey 16th April 1953
 Book. 289 on the Single Screw vessel "MARITIME TRADER" Tons Gross 120.3.3 Net 76.2.3
 at HOBOKEN By whom built Soc. ANON JOHN COCKERILL Yard No. 759 When built 1953
 for Maritime Transportation Co. D.A. Port belonging to Monrovia
 engines made at GHEENT By whom made ANSAO BEAGRIAN CO. Engine No. 8214 When made 1953
 generators made at Hoboken By whom made Diamond Schuckertwerke Generator No. 556931 When made —
 of Sets 2 B.H.P. of each Set 234 M.N. of each Set as per Rule 46 Capacity of each Generator 150 Kilowatts
 intended for essential services YES

ENGINES, &c.—Type of Engines 4DU 2 or 4 stroke cycle 4 Single or double acting SINGLE

mean pressure in cylinders 55 Kg/cm² Diameter of cylinders 242 Length of stroke 320 No. of cylinders 4 No. of cranks 4
 indicated pressure 6.7 Kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 240 282 added
 re a bearing between each crank YES Moment of inertia of flywheel (16 m² or Kg.-cm.²) 1440 Kg.-cm² Revolutions per minute 650
 wheel dia. 1300 Weight 1,340 Kg. Means of ignition COMPRESSION Kind of fuel used DIESEL OIL

Shaft, Solid forged dia. of journals as per Rule 160% Crank pin dia. 155 Crank Webs Mid. length breadth 220 Thickness parallel to axis shrunk
 Semi-built dia. of journals as fitted 160% Mid. length thickness 72 Thickness round eyeballs —
 All built

Wheel Shaft, diameter as per Rule 170% Generator armature, moment of inertia (16 m² or Kg.-cm.²) 110 Kg.-cm²
 as fitted 170% Commutator 43 Kg.-cm²

Means provided to prevent racing of the engine GOVERNOR Means of lubrication FORCED Kind of damper if fitted —

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

ing Water Pumps, No. and how driven ATTACHED Is the sea suction provided with an efficient strainer which can be cleared within the vessel —

ating Oil Pumps, No. and size 2 GEARED CAPACITY 1880 l/h.

Compressors, No. NONE No. of stages — Diameters — Stroke — Driven by —

ing Air Pumps or Blowers, No. — How driven —

RECEIVERS:—Have they been made under Survey YES State No. of Report or Certificate 1121720

Full details of safety devices SAFETY VALVES

Are internal surfaces of the receivers be examined and cleaned YES

Are a drain arrangement fitted at the lowest part of each receiver YES

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

Is, lap welded or riveted longitudinal joint — Material — Range of tensile strength — Working pressure —

ing Air Receivers, No. 2 Total cubic capacity 125 ltr Internal diameter 344 thickness 12

Is, lap welded or riveted longitudinal joint BUTT WELD Material S.M. Range of tensile strength — Working pressure 60 kg/cm²

TRIC GENERATORS:—Type SIEMENS SCHUCKERT G324/26-8-1516

ere of supply 230 volts. Full Load Current 653 Amperes. Direct or Alternating Current DIRECT

Regulating current system, state the periodicity — Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

off YES Generators, are they compounded as per Rule YES Is an adjustable regulating resistance fitted in series with each shunt field YES

terminals accessible, clearly marked, and furnished with sockets YES Are they so spaced —

Is it led that they cannot be accidentally earthed, short circuited, or touched YES Are the lubricating arrangements of the generators as per Rule YES

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

Generators are 100 kw. or over have they been built and tested under survey YES

of driven machinery other than generator NONE

5.—Are approved plans forwarded herewith for Shafting APPROVED 4-3-53 Receivers — Separate Tanks —

(If not, state date of approval) 21-3-53 Armature shaft Drawing No. MGL 7191

Resonance Vibration characteristics if applicable been approved — (State date of approval and name of previous duplicate case, if any)

Spare gear required by the Rules been supplied YES

The foregoing is a correct description,

Manufacturer.



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010200- 010207-0039

Dates of Survey while building
During progress of work in shops - - 4th 5th 12th Dec. 1952, 4th 26 March, & 16th April 1953
During erection on board vessel - - April 21, Nov. 14
Total No. of visits 8

Dates of Examination of principal parts—Cylinders do above. Covers do. Pistons do. Piston rods /

Connecting rods do. Crank and Flywheel shafts 4-3-53 Intermediate shafts —

Crank shaft
Material ELECTRIC. Tensile strength 81.6
Elongation 17.9 Identification Marks Lloyd's No 1529 FH. 4-3-53

Flywheel shaft, Material — Identification Marks —

Identification marks on Air Receivers ABC. No 630 P1252. NP 60K9. 21/9/57 Lloyd's TEST 195.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This engine has been constructed and examined in accordance with Rule requirements. The general workmanship found good. The engine tried under hot test conditions and found satisfactory.

M. J. Knowlton

This oil engine generator set has been installed on board under the special survey of the Society's Surveyor in accordance with the Rules. Satisfactory full load running trials have been witnessed.

The amount of Fee ... fr. 4540.- When applied for 8-6-1953
Travelling Expenses (if any) fr. 1322.- When received 6-7-1953
Committee's Minute FRIDAY 5 JAN 1954
Assigned Sec Rpt. 4a.

J. H. Toosey M. J. Knowlton
Surveyor to Lloyd's Register of Shipping
Lloyd's Register Foundation