

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 28896

Received at London Office 17 DEC 1953

of writing Report 10-11-1953 When handed in at Local Office 11-12-1953 Port of ANTWERP

in Survey held at ANTWERP & GHEENT Date, First Survey 4<sup>th</sup> Dec 1952 Last Survey 16<sup>th</sup> April 1953  
Book. Number of Visits 6

289 on the Single Screw vessel 8 "MARITIME TRADER" Tons Gross 1203.3 Net 762.3  
Triple  
Quadruple

at HOBOKEN By whom built Soc. ANON JOHN COCKERILL Yard No. 759 When built 1953

by Maritime Transportation Co. D.A. Port belonging to Monrovia

engines made at GHEENT By whom made ATLAS BELGIAN Co. Engine No. 8214 When made 1953

generators made at Germany By whom made Siemens Schuckertwerke Generator No. 556931 When made -

of Sets all 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 ADU 2 or 4 stroke cycle 4 Single or double acting SINGLE

mean pressure in cylinders 55 Kg/cm<sup>2</sup> Diameter of cylinders 242 Length of stroke 320 No. of cylinders 4 No. of cranks 4

indicated pressure 6.7 Kg/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 240 282 appud

are a bearing between each crank YES Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 1440 Kg.cm<sup>2</sup> Revolutions per minute 650

crank 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 150% Crank pin dia. 155 Crank Webs Mid. length breadth 220% Thickness parallel to axis shrunk  
Semi-built as fitted 150% Mid. length thickness 78% Thickness round eyeballs -  
All built

Shaft, diameter as per Rule 170% Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 110 Kg.cm<sup>2</sup>  
as fitted 170% Commutator 43 Kg.cm<sup>2</sup>

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

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

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

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

Operating Air Pumps or Blowers, No. - How driven -

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

(other than main engines) 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 -

Welds, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -

Gas Air Receivers, No. all Total cubic capacity 125 ltr Internal diameter 344 thickness 12%

Welds, lap welded or riveted longitudinal joint BUTT WELD Material S.M. Range of tensile strength - Working pressure 60 kg/cm<sup>2</sup>

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

Voltage 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 YES

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)

Resonance Vibration characteristics if applicable been approved 21-3-53 Armature shaft Drawing No. MGL 7191  
(State date of approval and name of previous duplicate case, if any)

Is spare gear required by the Rules been supplied YES

The foregoing is a correct description,

Manufacturer.



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

Dates of Examination of principal parts—Cylinders *as 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 *LLOYDS No 1529 FH. 4-3-53*  
 Identification Marks */*

Flywheel shaft, Material */*  
 Identification marks on Air Receivers *ABC. No 630 P1257. NP 60K9 21/9/57 LLOYD'S TEST MS.*

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 bed 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 Surveyors are requested not to write on or below the space for Committee Minutes.)*

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. Toos & Co. Surveyors to Lloyd's Register of Shipping.*  
  
 Lloyd's Register Foundation

4m.552.-T. (MADE AND PRINTED IN ENGLAND)