

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 2

Received at London Office 21 JUL 1955  
VALENCIENNES.

of writing Report 25th June 1955 When handed in at Local Office 25th June 1955 Port of VALENCIENNES.

Survey held at MAUBEUGE, Nord, France Date, First Survey 5/1/55 Last Survey 23/6 / 1955  
Number of Visits 9

Single on the Twin Triple Quadruple Screw vessel "AGORA" Tons Gross Net  
By whom built Forges & Chantiers de la Méditerranée Yard No. 1310 When built 1955  
LA SEYNE, Var, France

Compagnie Franco-Chérifienne de Navigation Port belonging to -

Engines made at Maubeuge By whom made Acieries du Nord Engine No. 209 When made 1955

Generators made at Paris By whom made Sté Gramme Generator No. When made 1955

of Sets 3 B.H.P. of each Set 150 M.N. of each Set as per Rule Capacity of each Generator 100 Kilowatts

intended for essential services Yes

ENGINES, &c.—Type of Engines M.A.N. W 6 V 17.5/22 A 2 or 4 strokes cycle 4 Single or double acting Single

Maximum pressure in cylinders 62 Kg/cm<sup>2</sup> Diameter of cylinders 175 mm Length of stroke 220mm No. of cylinders 6 No. of cranks 6

Indicated pressure 7.6 Kg/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 195 mm

Were a bearing between each crank Yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 164 x 10<sup>4</sup> Kg.-cm.<sup>2</sup> Revolutions per minute 750

Wheel dia. 800 mm Weight 439 K<sup>o</sup> Means of ignition fuel injection Kind of fuel used gas oil or fuel

Crank Shaft, Solid forged dia. of journals as per Rule Crank pin dia. 105mm Crank Webs Mid. length breadth 178mm Thickness parallel to axis

As fitted 105mm Mid. length thickness 42mm Thickness round eyelets

Crankshaft enlarged to wheel Shaft, diameter as fitted 115mm Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 47 x 10<sup>4</sup> Kg.-cm.<sup>2</sup>

Means provided to prevent racing of the engine Yes Means of lubrication forced Kind of damper if fitted -

Are the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes

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

Lubricating Oil Pumps, No. and size one capacity 4500 L/H

Air Compressors, No. No. of stages Diameters Stroke Driven by

Saving Air Pumps or Blowers, No. How driven

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

(other than main engines) State full details of safety devices

Were the internal surfaces of the receivers be examined and cleaned

Were there a drain arrangement fitted at the lowest part of each receiver

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

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

Working Air Receivers, No. 25765 one for 3 sets Total cubic capacity 250 Litres Internal diameter 350 mm thickness 9mm

Seamless, lap welded or riveted longitudinal joint Material O.H. Steel Range of tensile strength 38/42 Working pressure 30 Kg/mm<sup>2</sup>

ELECTRIC GENERATORS:—Type

Pressure of supply volts Full Load Current Amperes Direct or Alternating Current

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

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

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

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

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

Do the generators are 100 kw. or over have they been built and tested under survey Yes see attached copy of report

Are the shafts of driven machinery other than generator

Are the plans approved forwarded herewith for Shafting 21st March 1955 Receivers 21st March 55 Separate Tanks -

(If not, state date of approval) see letter 21st March 1955 Armature shaft Drawing No. -

Are the torsional Vibration characteristics if applicable been approved (State date of approval and name of previous duplicate case, if any)

Are the 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 - - } 5 Jan., 20 April, 3/5/55, 4/5/55, 5/5/55, 6/5/55, 7/6/55, 8/6/55, 23/6/55.  
 { During erection on board vessel - - }  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 3/5/55 heads Covers 3/5/55 Pistons 4/5/55 Piston rods

Connecting rods 5/5/55 Crank and Flywheel shafts 4/5/55 Intermediate shafts

Crank shaft { Material N1CrMo Steel See London's letter 21/3/55 Tensile strength 80/90 Kg/mm2 confirmed by  
 Elongation 15% on 100 mm Identification Marks Eng. N° 209 N° 45 HJM 3/5/55

Flywheel shaft, Material none Identification Marks none

Identification marks on Air Receivers N° 25765 Lloyds Test 48 K° 5 WP 30 K° HJM 27/5/55

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The Diesel engine has been constructed in accordance with the Rule Requirements, Approved Plans and Secretary's letters. The materials and workmanship are good. The Diesel engine is considered to be up to the standards required for auxiliary machinery for vessels classed with this Society.

CERD?

4m.52.-T. (MADE AND PRINTED IN HOLLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ Frs : 26.800 { When applied for 19  
 Travelling Expenses (if any) £ Frs : 5.300 { When received 19

FRIDAY 18 MAY 1956

Committee's Minute  
 Assigned See Rpt. 46.

Surveyor to Lloyd's Register of Shipping.  
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