

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 3

Received at London Office 21 JUL 1955

Survey Report 25th June 1955 Date handed in at Local Office 26th June 1955 Port of VALENCIENNES

Survey held MAUBEUGE, Nord, France

Date, First Survey 5/1/55

Last Survey 23/6/1955

Number of Visits 9

Single or double acting
Name of the engine "ZAGORA"

Gross
Net

La Seyne, Var, France

By whom built Forges & Chantiers de la Méditerranée

Yard No. 1310 When built 1955

Compagnie Franco-Chérifienne de Navigation

Port belonging to

Maubeuge

By whom made Aciéries du Nord

Engine No. 210 When made 1955

Paris

By whom made Ets GRAMME

Generator No. When made 1955

3 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 Engine

M.A.N. W 6 V 17.5/22 A

2 or 4 stroke cycle 4

Single or double acting Single

Mean pressure in cylinders 62 Kg/cm²

Diameter of cylinders 175 mm

Length of stroke 220 mm

No. of cylinders 6

No. of cranks 6

Indicated pressure 7.6 Kg/cm²

Span of bearings (i.e. distance between inner edges of bearings in way of a crank) 195 mm

Distance between each crank Yes

Moment of inertia of flywheel (16 m² or Kg.-cm.²) 164 x 10⁴ Kg.-cm.²

Revolutions per minute 750

Weight 439 Kg

Weight

439 Kg

Means of ignition Fuel injection

Kind of fuel used gas oil or fuel

Shaft Solid forged
Semi-built
All-built

dia. of journals
as fitted 105 mm

Crank pin dia 105 mm

Crank Webs

Mid. length breadth 178 mm

Thickness parallel to axis

Mid. length thickness 42 mm

Thickness round eyebolt

Crankshaft enlarged to

as fitted 115 mm

Generator armature, moment of inertia (16 m² or Kg.-cm.²)

47 x 10⁴ Kg.-cm.²

Means provided to prevent racing of the engine Yes

Means of lubrication forced

Kind of damper if fitted

The cylinders fitted with safety valves No

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes

ing Water Pumps, No. and how driven one gear

Is the sea suction provided with an efficient strainer which can be cleared within the vessel fresh water cooled no strainer

Boating Oil Pumps, No. and size

one capacity 4500 L/H

Compressors No

No. of stages

Diameters

Stroke

Driven by

ing Air Pumps or Blowers, No.

How driven

State No. of Report or Certificate

RECEIVERS: Have they been made under Survey

(other than main engines)

Full details of safety devices

The internal surfaces of the receivers be examined and cleaned

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

Pressure Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

Class, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure

ing Air Receivers, No. 25765

ONE FOR SETS

Total cubic capacity 250 Litres

Internal diameter 350 mm

thickness 9 mm

Class, lap welded or riveted longitudinal joint

seamless

Material

O.H. Steel

Range of tensile strength 38/42 Kg/cm²

Working pressure 30 Kg/cm²

ELECTRIC GENERATORS: Type

Source of supply

note

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

All terminals accessible, clearly marked, and furnished with sockets

Are they so spaced

Is it held that they cannot be accidentally earthed, short circuited, or touched

Are the lubricating arrangements of the generators as per Rule

The generators are under 100 kw. full load rating, have the makers supplied certificates of test

and do the results comply with the requirements

The generators are 100 kw. or over have they been built and tested under survey

Yes see attached copy of report

Is driven machinery other than generator

Are approved plans for location and mounting for lifting

21st March 1955

Receivers 21st March 55 Separate Tanks

Torsional Vibration characteristics if applicable

See letter 21st March 1955

Armature shaft Drawing No.

Is the spare gear required by the Rules been supplied

Yes

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 5th 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 NiCrMo steel See London letter 21/3/55 Tensile strength 80/90 Kg/mm2 confirmed by B
Elongation 15% on 100 mm Identification Marks Eng. N° 210 N° 47 HJM 3/5/

Flywheel shaft, Material None Identification Marks None

Identification marks on Air Receivers N° 25765 Lloyd's Reat 48 K° 5 WM 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 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 Special

CERD?

4m.552-T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below this space for Committee Minutes.)

The amount of Fee ... £ Frs : 20.800 When applied for 19
Travelling Expenses (if any) £ Frs : 5.300 When received 18

FRIDAY 18 MAY 1956

Committee's Minute

Assigned See Rpt. 4 C.

Surveyor to Lloyd's Register of Shipping.
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