

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21286

Received at London Office 9-FEB 1956

Date of writing Report 29-6-56 When handed in at Local Office 3/2/1956 Port of GENOA

No. in Survey held at GENOA Date, First Survey 13-12-54 Last Survey 17-1-56 19
 eg. Book. Number of Visits 8

Single on the Twin Triple Quadruple Screw vessel "MIRAFLORES" Tons Gross 20776 Net 1499

uilt at GENOA-SESTRI By whom built SA ANSALDO-CANTIERI NAVALI Yard No. 1499 When built 1956

wners MIRAFLORES S.A. COMPANIA NAVIERA PANAMENA Port belonging to PANAMA

il Engines made at GENOA-SANPIEROARE By whom made SA ANSALDO-STABILIMENTO HECCANICO Engine No. 1603397 When made 1955

enerators made at GENOA-CAMPI By whom made SA ANSALDO-SAN GIORGIO Generator No. 11914 When made 1955

o. of Sets ONE B.H.P. of each Set 46 M.N. of each Set as per Rule Capacity of each Generator 25 Kilowatts

Set intended for essential services EMERGENCY

595 OIL ENGINES, &c.—Type of Engines ANSALDO 8150/3-AIRLESS INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 60 Kg/cm² Diameter of cylinders 150 mm Length of stroke 200 mm No. of cylinders 3 No. of cranks 3

ean indicated 6.4 Kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 170 mm

With there a bearing between each crank YES Moment of inertia of flywheel (16 m² or Kg.-cm.²) 455 Kg. Revolutions per minute 670

THE flywheel dia. 900 mm Weight 455 Kg. Means of ignition COMPRESSION Kind of fuel used DIESEL OIL

Work crank Shaft, Solid forged dia. of journals 110 mm Crank pin dia. 98 mm Crank Webs Mid. length breadth 180 mm Thickness parallel to axis 36 mm

as per Rule 25.9/10000 as fitted 110 mm Generator armature, moment of inertia (16 m² or Kg.-cm.²)

Flywheel Shaft, diameter 110 mm

Are means provided to prevent racing of the engine GOVERNOR Means of lubrication FORCED Kind of damper if fitted FLEXIBLE COUPLING

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

Driven by engine Cooling Water Pumps, No. and how driven ONE-ROTARY RADIATOR FITTED TO COOLING WATER SYSTEM. Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES

Driven by engine Lubricating Oil Pumps, No. and size ONE-GEAR TYPE-2 m³/h.

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

Scavenging 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

Can the internal surfaces of the receivers be examined and cleaned

Is 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

Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS:—Type PROTECTED-SELF VENTILATED

Pressure of supply 115 volts Full Load Current 218 Amperes Direct or Alternating Current DIRECT

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

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

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

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

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

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

Details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting 5-3-47 Receivers Separate Tanks

Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.

Has the spare gear required by the Rules been supplied YES

ANSALDO S.A.
 STABILIMENTO MECCANICO
 The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } From 13-12-54 To 29-9-55
{ During erection on board vessel - - } From 3-11-55 To 17-1-56
Total No. of visits 8

Dates of Examination of principal parts—Cylinders 13-12-54 Covers 30-12-54 Pistons 20-1-55 Piston rods ✓

Connecting rods 20-1-55 Crank and Flywheel shafts 13-1-55 Intermediate shafts ✓

Crank shaft { Material NICKEL STEEL Tensile strength $\geq 80 \text{ Kg/mm}^2$
Elongation $\geq 17\%$ Identification Marks LLOYD'S-GEN
694
A.G. 73-1-55

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case YES If so, state name of vessel "FRISCO" SEE GENOA REP. N° 20099.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE APPROVED PLANS, SECRETARY'S LETTERS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE GOOD. THIS SET HAS BEEN TRIED UNDER WORKING CONDITION ON THE BENCH AT FULL POWER AND FOUND SATISFACTORY. AFTERWARDS THE SET HAS BEEN FITTED ON BOARD AND EXAMINED UNDER WORKING CONDITION WITH SATISFACTORY RESULTS.

FIRST ENTRY FEE: £4 15.000⁰⁰ ^{15/11/55}

The amount of Fee ... £7 12.750⁰⁰

CAR FUND ... £1 255⁰⁰

Travelling Expenses (if any) £7 1695⁰⁰

REV TAX ... £1 441⁰⁰

When applied for 19/12/ 1955

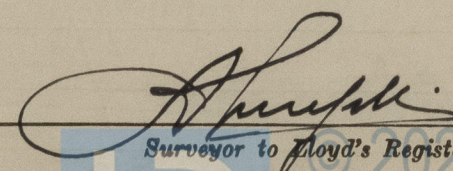
When received 19

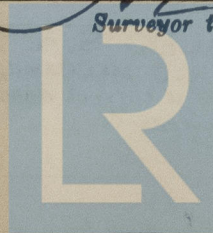
FRIDAY 16 MAR 1956

Committee's Minute

Assigned

See Rpt. 4.


Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation