

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20696

Rot. Rpt. No. 27920^a

Date of writing Report 27. 8. 38 When handed in at Local Office 27. 8. 38 Port of Trinidad
 No. in Survey held at Trinidad Date, First Survey 19. 7. 1937 Last Survey 18. 8. 1938
 Reg. Book. Number of Visits 10

on the Single Twin Triple Quadruple Screw vessel motor vessel "CORILLA"
 Built at Schiedam By whom built Messrs. Wilton-Lijnden Yard No. 664 When built 1939
 Owners N. V. Petroleum Maats. "De Corona" Port belonging to is Gravenhage
 Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 190487 When made 1938
 Generators made at ✓ By whom made ✓ Contract No. ✓ When made ✓
 No. of Sets One Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators ✓ Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 VCRZ Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 700 lbs. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 1/8" Is there a bearing between each crank yes
 Revolutions per minute 450 Flywheel dia. 3' 4" Weight 19 cwt. Means of ignition Compression Kind of fuel used Heavy oil
 Crank Shaft, dia. of journals as per Rule Approved 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis ✓
as fitted 6" Mid. length thickness 2 1/2" shrunk Thickness around eyehole ✓
 Flywheel Shaft, diameter as per Rule Approved 6" Intermediate Shafts, diameter as per Rule ✓ Thickness of cylinder liners 3/4"
as fitted 6" as fitted ✓
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Forced
 Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled
 Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
 Lubricating Oil Pumps, No. and size One geared.
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

AIR RECEIVERS:—Have they been made under Survey ✓ State No. of Report or Certificate ✓
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule ✓
 Can the internal surfaces of the receivers be examined ✓ What means are provided for cleaning their inner surfaces ✓
 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 by Rules ✓
 Starting Air Receivers, No. ✓ Total cubic capacity ✓ Internal diameter ✓ thickness ✓
 Seamless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

ELECTRIC GENERATORS:—Type ✓
 Pressure of supply ✓ volts. Full Load Current ✓ Amperes. Direct or Alternating Current ✓
 If alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on 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 or shielded that they cannot be accidentally earthed, short circuited, or touched ✓ Are the lubricating arrangements of the generators as per Rule ✓
 If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test ✓ and do the results comply with the requirements ✓
 If the generators are 100 kw. or over have they been built and tested under survey ✓

PLANS. Are approved plans forwarded herewith for Shafting 11-11-32 Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

SPARE GEAR
As per Rule requirements

Ruston & Hornsby, Limited.
 The foregoing is a correct description,
R. L. Brown
 Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1937 Jul 19-22 Aug 9. 12-19 Sep 6. 20 1938 Jul 14. 21 Aug 18.
During erection on board vessel - - -
Total No. of visits 10

Dates of Examination of principal parts—Cylinders 18-8-38 Covers 18-8-38 Pistons 18-8-38 Piston rods ✓

Connecting rods 2-6-38 Crank and Flywheel shafts 21-7-38 Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3346-21-7-38 AS.

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel *Imv. Rpt. 20376.*

General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine has been built under special survey in accordance with the Rules and approved plans.

The workmanship and materials are good.

Running tests have been carried out at the Maker's works with satisfactory results.

The engine is being despatched to Schiedam to the order of Messrs. Wilkon. Tijensfontein, Holland.

Request for attached Imv. Rpt 20376

9/4203/P/10.8967

Per Gms. Li. £ 5
The amount of Fee ... £ 8

{ Travelling Expenses (if any) £
charged monthly

When applied for,
29-8-1938.
When received,
29-8-1938
[C.C.4]

Shelke + G. Knowles.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 10 MAR 1938

See FE machy rpt



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