

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

COMPRESSOR

Trieste 12604

No 20832

Received at London Office

JAN 10 1939

Date of writing Report 6th January 1939 When handed in at Local Office 6th January 1939 Port of Grimsby  
 No. in Survey held at Lincoln Date, First Survey 26 38 Last Survey 4. 1. 1939  
 Reg. Book. 89480 on the Single Screw vessel US 'Olivia' Number of Visits 9  
 Tons { Gross 6307  
 Net 3600  
 Built at Grimsby By whom built Cantieri Riuniti dell'Adriatico Yard No. 1214 When built 1939  
 Owners N.V. Curacao'sche Scheepvaart Maatschappij Port belonging to Willemstad  
 Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd ENGINE Contract No. 191615 When made 1938  
 Generators made at Peterborough By whom made Peter Brotherhood Ltd COMPRESSOR Contract No. 64801 When made 1938  
 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 SVCRZ-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 lbs Means of ignition Compression Kind of fuel used Heavy oil  
 Crank Shaft, dia. of journals as per Rule Approved Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis shrunk  
 as fitted 6" Mid. length thickness 2 1/2" Thickness around eyehole ✓  
 Flywheel Shaft, diameter as per Rule Approved 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 Yes  
 Lubricating Oil Pumps, No. and size One, geared  
 Air Compressors, No. One No. of stages Two Diameters ✓ Stroke ✓ Driven by Engine  
 Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

2/37 AIR RECEIVERS:—Have they been made under Survey See Receiver per M. E. 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. See Main Eng. 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 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 One cylinder head & liner. 1 connecting rod with top & bottom end bearings & bolts. 1 set of valve liners & rollers for one cylinder. 1 complete fuel pump, with pipes & connections. 2 fuel pump plungers & ground bushes. 2 fuel atomisers & exhaust valves, complete with housings, springs, etc. 1 starting air & one inlet valve complete. 2 exhaust & 2 inlet valves with stems. 1 piston with 2 sets of piston rings. 2 atomiser needle valves & guides. 4 cylinder head studs & 2 main bearing studs.

Ruston & Hornsby Limited,  
 The foregoing is a correct description.

*B. Croyson*

Manufacturer.

Oil &amp; Gas Engine Dept.



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