

REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR~~ SETS.

COMPRESSOR - CENTRIFUGAL PUMP

No. 11293

4c.

Date of writing Report 23-11-1942 When handed in at Local Office 1942 Port of Manchester
 No. in Survey held at Manchester Date, First Survey 20-10-42 Last Survey 17-11-1942
 Reg. Book. Motor Collier Number of Visits 4
 on the Single Screw vessel (MOTOR COLLIER) "EMPIRE REAPER" Tons Gross
Triple
Quadruple
 Built at Knottingsley By whom built John Parker Yard No. 146 When built 1943
 Owners Ministry of War Transport Port belonging to ENGINE
 Oil Engines made at Manchester By whom made Crossley Bros Contract No. 131926 When made 1942
 Generators made at By whom made Contract No. When made
 No. of Sets One Engine Brake Horse Power 6 Nom. Horse Power as per Rule 1.7 Total Capacity of Generators ✓ Kilowatts.

IL ENGINES, &c.—Type of Engines Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 900 lb/sq in Diameter of cylinders 4" Length of stroke 4 1/2" No. of cylinders One No. of cranks One
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 3 3/4" Is there a bearing between each crank ✓
 Revolutions per minute 1000 Flywheel dia. 19" Weight 178 lb Means of ignition Compression Kind of fuel used Heavy Oil
 Crank Shaft, dia. of journals as per Rule 3 1/2" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis shrunk
 as fitted 3 1/2" Mid. length thickness 1 3/8" Thickness around eyehole Solid
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners ✓
 as fitted ✓ 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 No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material ✓
 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 9/16 dia x 1/2 stroke at 300 Revs per min
 Air Compressors, No. One No. of stages Two Diameters 3 1/4 + 1 1/2" Stroke 3 1/4" Driven by Electric
 Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

IR 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 Approved 8-8-42 Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

SHAFTING GEAR As per Rule Requirements

The foregoing is a correct description,
CROSSLEY BROTHERS LIMITED,

Manufacturer.



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014738-014750-0026

Dates of Survey while building { During progress of work in shops - - } 20-10-42; 21-10-42; 4-11-42; 17-11-42.
 { During erection on board vessel - - }
 Total No. of visits 4

Dates of Examination of principal parts—Cylinders 20-10-42 Covers 21-10-42 Pistons 21-10-42 Piston rods ✓

Connecting rods 21-10-42 Crank and Flywheel shafts 20-10-42 Intermediate shafts ✓

Crank and Flywheel shafts, Material O.H. Ingot Steel Identification Marks LLOYDS. M.96. EG. 20-10-42.

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

General Remarks (State quality of workmanship, opinions as to class, &c. *This engine has been constructed under Special Survey, of tested materials and in accordance with the Secretary's letter's approved plans and Rule Requirements.*

The materials and workmanship are of good quality, and the engine when tested in the shop under full load condition, showed satisfactory results.

In my opinion this engine is suitable to be placed on board a vessel classed with this Society, for the purpose intended.

The above engine installed onboard "EMPIRE REAPER" at KNOTTINGLY and
 Gool and tried under working conditions and found satisfactory
 W.S.S.

The amount of Fee ... £ 2 : 2 :
 Travelling Expenses (if any) £ : 5 :
 When applied for, 21-12-1942.
 When received, 19.....

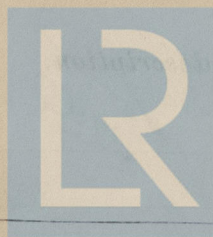
E. Grieve pp W. Newton
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 21 MAY 1943

See fe. machs rpl.



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