

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 10674

SEP 1941

Received at London Office

Date of writing Report 28/7/41 When handed in at Local Office 15/9/41 Port of Manchester
No. in Survey held at Reddish Stockport Date, First Survey 27/1/41 Last Survey 19/7/1941

Single on the Twin Triple Quadruple Screw vessel M. S. C. NEPTUNE Tons Gross Net

Built at Leith By whom built Messrs Henry Robb Ltd Yard No. 319 When built 1941

Owners The Manchester Ship Canal Co Port belonging to

Oil Engines made at Reddish, Stockport By whom made Messrs Crossley Bros Ltd ENGINE Contract No. 129932 When made 1941

Generators made at Liverpool By whom made Messrs Bannell Fisher Wood Ltd Contract No. 15245 When made 1941

No. of Sets One Engine Brake Horse Power 28 Nom. Horse Power as per Rule Total Capacity of Generators 12 1/2 Kilowatts.

OIL ENGINES, &c.—Type of Engines Vertical, solid injection 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 750 lbs/sq in Diameter of cylinders 5" Length of stroke 6.25" No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 12 5/8" Is there a bearing between each crank No

Revolutions per minute 1000 Flywheel dia. 24" Weight - Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, dia. of journals as per Rule 3 1/2" as fitted 3 1/2" Crank pin dia. 3 1/4" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis -

Flywheel Shaft, diameter as per Rule - as fitted - Intermediate Shafts, diameter as per Rule - as fitted - Thickness of cylinder liners 9/32"

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 7/8" dia in x 1 1/32" stroke

Air Compressors, No. One No. of stages Two Diameters 4 1/2" - 1 5/8" Stroke 3 1/4" Driven by shaft extension through clutch

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 110 volts. Full Load Current 114 Amperes. Direct or Alternating Current Direct

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 Yes

Generators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with each shunt field 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

PLANS. Are approved plans forwarded herewith for Shafting 26/7/40 Receivers Separate Tanks Not supplied

SPARE GEAR As per Rule.

The foregoing is a correct description. CROSSLEY BROTHERS LIMITED, MANUFACTURER.



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006968-006982-0123

COMPRESSION PUMP

Dates of Survey while building

During progress of work in shops - -	27/1/41	6/2/41	20/1/41	15/1/41	19/7/41
	Total No. of visits 5				

Dates of Examination of principal parts—Cylinders 6/2/41 Covers 27/1/41 Pistons ✓ Piston rods ✓

Connecting rods 20/1/41 Crank and Flywheel shafts 15/1/41 Intermediate shafts ✓

Crank and Flywheel shafts, Material O.H. Ingot Steel Identification Marks LLOYDS 1362/63 W.J.F. 15/1/41

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case If so, state name of vessel

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

This engine has been built under special survey of tested materials and is in accordance with Secretary's letters, approved plans and Rule requirements.

The materials used and the workmanship are of good quality and the engine when tested in the shop under full load conditions gave satisfactory results.

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

Generator certificate & Forging report attached. ✓

1m.11.37.—Transfer. (MADE IN ENGLAND.)
The Surveyors are requested not to write on or below the space for Committee Minute.

The amount of Fee ... £ 4 : 4 :
Travelling Expenses (if any) £ : 10 :

When applied for, 15/9/1941
When received, 19

Bloodax
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

WED. 4 FEB 1942

Assigned

See Lth. J.E. 20601



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