

COMPRESSOR, PUMP +

See with No. 20601

Rpt. 4c.

REPORT ON OIL ENGINE/ELECTRIC GENERATOR SETS.

No. 10675

Date of writing Report 2nd August 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 24/7/1941
 Reg. Book. Received at London Office 6 SEP 1941
 Number of Visits 2

on the Single 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 By whom made Messrs. Crossley Bros. ENGINE No. 129931 When made 1941
 Generators made at Liverpool By whom made Messrs. Campbell Bakerwood Ltd. No. 15255 When made 1941
 No. of Sets One Engine Brake Horse Power 28 Nom. Horse Power as per Rule Total Capacity of Generator 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 lb/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 Approved Crank pin dia. 3 1/2" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis ✓
as fitted 3 1/2" Mid. length thickness 2 7/8" & 1 7/8" shrink Thickness around eyehole ✓
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 9/32"
as fitted as fitted Means of lubrication Forced
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes
 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 75 Gall. per hour 7/8" bore 1 7/32" stroke
 Air Compressors, No. One No. of stages Two Diameters 4 1/2" - 1 5/8" Stroke 3 1/4" Driven by Engine, thro' 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 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 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
 (if no state of approval)
SPARE GEAR As per Rule Requirements

23/9/41

The foregoing is a correct description,
CROSSLEY BROTHERS LIMITED,

Hoque

Manufacturer.



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Lloyd's Register Foundation

006988-006982-0124

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits

24th January 1941, 24th July 1941.

✓
2.

Dates of Examination of principal parts—Cylinders 27/1/41 Covers 27/1/41 Pistons 27/1/41 Piston rods ✓
 Connecting rods 27/1/41 Crank and Flywheel shafts 27/1/41 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.
 Copy of generator certificate of test is attached here with.
 Torsion report for crankshaft is attached to Mch. Rpt. No 10674.

Im. 4.88.—Transfer. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 4 : } When applied for, 15/9/41
 Travelling Expenses (if any) £ : 6 : } When received,

H. P. Matheson
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 WED. 4 FEB 1942
 See L.H. J.E. 20601

