

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

COMPRESSOR

No. 55037

Date of writing Report 19 When handed in at Local Office 30 JUL 1948 Received at London Office 31 JUL 1948
Port of HULL
No. in Survey held at Hull Date, First Survey 4.5.48 Last Survey 19.7.1948
Reg. Book. 29783 on the ~~XXXX~~ ^{Single} ~~XXXX~~ <sup>XXXX Screw vessel "MYTONGATE"
Built at Willington Quay on Tyne By whom built Clelands (Successors) Ltd. Yard No. - When built 1938
Owners Hull Gates Shipping Co., Ltd. Port belonging to Hull
Oil Engines made at Stockholm By whom made Bolinders Diesel Contract No. 35650 When made 1943
Generators made at - By whom made - Contract No. - When made -
No. of Sets 1 Engine Brake Horse Power 10 M.N. as per Rule Total Capacity of Generators - Kilowatts.
Is Set intended for essential services Yes - auxiliary compressor</sup>

OIL ENGINES, &c.—Type of Engines Bolinder Diesel type D7 3 S 111 2 or 4 stroke cycle 2 Single or double acting single
Maximum pressure in cylinders Diameter of cylinders 120 m/m Length of stroke 150 m/m No. of cylinders 1 No. of cranks 1
Mean indicated pressure Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 180 m/m
Is there a bearing between each crank - Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 1000
Flywheel dia. 550 m/m Weight - Means of ignition compression Kind of fuel used Diesel
Crank Shaft, dia. of journals as per Rule 60 m/m Crank pin dia. 80 m/m Crank Webs Mid. length breadth 140 Thickness parallel to axis *
as fitted - Mid. length thickness 30 m/m Thickness round eye-hole -
Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - General armature, moment of inertia (16 m² or Kg.-cm.²) -
as fitted -
Are means provided to prevent racing of the engine when declutched - Means of lubrication forced Kind of damper if fitted -
Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
Cooling Water Pumps, No. 1 on engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes from main suction
Lubricating Oil Pumps, No. and size -
Air Compressors, No. 1 No. of stages 2 Diameters 95 & 40 m/m Stroke - Driven by Direct coupled to engine.
Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

AIR RECEIVERS:—Have they been made under Survey See report on main engine 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 as per Rule when full 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
Details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting No plan available Receivers Separate Tanks
(If not, state date of approval) (see remarks)
Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.
the fuel pump

SPARE GEAR Spares for this set are being ordered, otherwise complete.

The foregoing is a correct description,

Manufacturer.



© 2021

Lloyd's Register
Foundation

010783-010790-0036

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

Dates of Examination of principal parts—Cylinders. 14.5.48 Covers. 14.5.48 Pistons. 14.5.48 Piston rods. -

Connecting rods. 14.5.48 Crank and Flywheel shafts. 14.5.48 & 15.7.48. Intermediate shafts. -

Crank shaft { Material..... Tensile strength.....
Elongation..... Identification Marks VB STKH 11.43

Flywheel shaft, Material..... Identification Marks.....

Identification marks on Air Receivers.....

Is this machinery duplicate of a previous case..... No..... If so, state name of vessel..... -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.).....

This compressor set was purchased from the stock of Messrs. A/B Atlas Diesel, Stockholm & comprises:

Bolinders Diesel Type DW3, 8111, No. 35650.

The cylinder head is stamped LLOYD'S TEST 95 KG B 8.12.42.

and the cylinder jacket is stamped LLOYD'S TEST B 2.12.42.

The only marks found on the crankshaft are VB STKH 11,43.

The compressor is an Atlas Diesel type LPKIM No.28773.

The head and cyl. jackets are stamped VB 11,43.

The engine & compressor now all opened out, examined and afterwards tried under working conditions when installed, with satisfactory results.

Subject to the dimensions of the crankshaft being found in accordance with the Rules. (Sec. letter of 31.5.48), this compressor set in my opinion should not affect the vessels notation of +L.M.C.

Amount of Fee ... £4 : - : - { When applied for 30 JUL 1948 19.....
Billing Expenses (if any) £ : : { When received 19.....

Committee's Minute..... FRI. 3 SEP 1948

See Rpt. a

N. Chambers
Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation