

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 192

Received at London Office

17 FEB 1947

Date of writing Report 2-1-1947 When handed in at Local Office 19 Port of LEEDS.  
No. in Survey held at LEEDS. Date, First Survey 22-10-46 Last Survey 12-12-1946  
g. Book. Number of Visits 4  
on the Twin } Single  
Triple } Screw vessel "TEDDY"  
Quadruple }  
Built at Greenock By whom built Messrs. George Brown & Co. Yard No. 241 When built 1947.  
Owners HANS SYENNINGEN Port belonging to COPENHAGEN  
Engines made at Leeds. By whom made Messrs. J & H McLaren Ltd. Engine Contract No. 30181 When made 1946  
Generators made at Loughborough By whom made Messrs. Brush Electrical Co. Generator Contract No. 37994 When made 1946  
No. of Sets. One Engine Brake Horse Power 66 Nom. Horse Power as per Rule 16.5 Total Capacity of Generators 35 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 4 Single or double acting Single  
Maximum pressure in cylinders 750 lbs/sq. in. Diameter of cylinders 142 mm. Length of stroke 200 mm No. of cylinders 3 No. of cranks 3  
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 180 mm. Is there a bearing between each crank Yes  
Revolutions per minute 1000 Flywheel dia. 2' - 9" Weight 480 lbs. Means of ignition Compression Kind of fuel used Heavy Oil  
Crank Shaft, dia. of journals as per Rule Approved 80 mm Crank pin dia. 80 mm Crank Webs Mid. length breadth 132 mm Thickness parallel to axis  
as fitted 80 mm Mid. length thickness 34 mm Thickness round eye-hole  
Flywheel Shaft, diameter as per Rule Coupling Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 6.75 mm  
as fitted At end of Crankshaft.  
Is there 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 Lagged  
Cooling Water Pumps, No. One Piston Type. Is the sea suction provided with an efficient strainer which can be cleared within the vessel.  
Lubricating Oil Pumps, No. and size One Gear Pump 200 Gallons per hour.  
Air Compressors, No. No. of stages Diameters Stroke Driven by  
S 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 Compound wound Marine Type.  
Pressure of supply 220 volts Full Load Current 159 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 all terminals accessible, clearly marked, and furnished with sockets. 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  
To be forwarded.  
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 26-5-46 Receivers — Separate Tanks —  
(If not, state date of approval) 30-5-46

SPARE GEAR

Rule Requirements in conjunction with Engine No. 30180.

Greenock 7<sup>th</sup> May 1947.

This engine has been efficiently installed in the vessel in accordance with the approved plan.  
tested under full load working conditions & found satisfactory.

Please refer to Greenock First Entry Report No. 23493. for recommendations as to Class.

Grechmann

The foregoing is a correct description,

Norman A. Deighton for J & H McLaren Ltd. Manufacturer.



© 2020

Lloyd's Register  
Foundation

003252-003262-0061



Dates of Survey while building { During progress of work in shops - - ) 22-10-46, 14-11-46, 6-12-46, 12-12-46.  
{ During erection on board vessel - - )  
Total No. of visits

Dates of Examination of principal parts—Cylinders... 22-10-46 Covers... 21/22-10-46 Pistons... 14-11-46 Piston rods...

Connecting rods... 14-11-46 Crank and Flywheel shafts... 14-11-46 Intermediate shafts...

Crank shaft { Material... Electric Furnace Steel. Tensile strength... 50 tons per square inch.  
Elongation... 24% on 2" Identification Marks... LR J.2907 BH. 11-10-46

Flywheel shaft, Material... Electric Furnace Steel. Identification Marks... LR J.2907-BH. 11-10-46

Is this machinery duplicate of a previous case... NO 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 engine has been constructed in accordance with approved plans, Secretary's letters and Rule Requirements, and the materials and workmanship are considered satisfactory.

The engine and generator were seen under running conditions on the test bed, and found satisfactory under full load conditions.

The Oil Engine Generator Set is, in my opinion, suitable for the purpose intended, and eligible to have the notation  LMC when satisfactorily installed in the vessel.

The amount of Fee ... £ 4 : 0 : 0 { When applied for 28-12- 19 46  
Travelling Expenses (if any) £ : 6 : 0 { When received 19

Committee's Minute... GLASGOW 13 MAY 1947

Assigned... ACCOMPANYING MACHINERY REPORT

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation