

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20905

Received at London Office MAR 15 1939

Date of writing Report 14.3.1939 When handed in at Local Office 14.3.1939 Port of Grimsby
No. in Survey held at Lincoln Date, First Survey 7.4.38 Last Survey 2.3.1939
Reg. Book. Number of Visits 10 + 5

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel **M.V. "TARIA"** Tons { Gross 10354.34 Net 6146.14

Built at Amsterdam By whom built *N.V. Nederlandsche Scheepbouw Maatschappij* Yard No. 273 When built 1939
Owners *N.V. Petroleum M^o "La Carona"* Port belonging to *Gravenhage*
Oil Engines made at Lincoln By whom made *Ruston & Hornsby, Ltd* ENGINE Contract No. 190484 When made 1939
Generators made at By whom made Contract No. When made
No. of Sets *One* Engine Brake Horse Power 60 Nom. Horse Power as per Rule 17 Total Capacity of Generators Kilowatts

IL ENGINES, &c.—Type of Engines *3 VCRZ Vertical Solid Injection* 2 or 4 stroke cycle *4* Single or double acting *single*
Maximum pressure in cylinders *400 lbs* Diameter of cylinders 8" Length of stroke *10 3/4"* No. of cylinders 3 No. of cranks 3
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *9 1/8"* Is there a bearing between each crank *yes*
Revolutions per minute 450 Flywheel dia. 3'-4" Weight 19 cwt. Means of ignition *Compression* Kind of fuel used *Heavy Oil*
Crank Shaft, dia. of journals as per Rule *Approved* Crank pin dia. *4 3/4"* Crank Webs Mid. length breadth 8" Thickness parallel to axis
as fitted 6" Mid. length thickness 2 1/2" shrunk Thickness around eye hole
Flywheel Shaft, diameter as per Rule *Approved* Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/4"
as fitted 6"

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 *yes* Are the exhaust pipes and silencers water cooled or lagged with non-conducting material *Water cooled.*
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 geared.*
Air Compressors, No. *one* No. of stages 2 Diameters *206-104 mm* Stroke *160 mm* Driven by *Engine*
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

LECTRIC 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
LANS. Are approved plans forwarded herewith for Shafting *11.11.32* Receivers Separate Tanks
(If not, state date of approval)

SHAFTING AND GEAR
As per Rule requirements.

Ruston & Hornsby Limited,
The foregoing is a correct description.
B. Loyson
Oil & Gas Engine Dept.

Manufacturer.



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003341-003348-0059

Dates of Survey while building { During progress of work in shops -- } 1938 Apr 7-29 May 9 June 16 July 5. 1939 Jan 2. 13. Feb 9-27 Mar 2.
 { During erection on board vessel --- } 1939 July 14. Aug 10-20. Sept 26-27
 Total No. of visits 10 + 5.

Dates of Examination of principal parts—Cylinders 2-3-39 Covers 2-3-39 Pistons 2-3-39 Piston rods ✓
 Connecting rods 16-6-38 Crank and Flywheel shafts 19-1-39 Intermediate shafts ✓
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYDS 3441-13-1-39AS.
 Intermediate shafts, Material ✓ Housing Identification Marks LLOYDS 3421-13-1-39AS.
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Sur. Off. No. 20872.

General Remarks (State quality of workmanship, opinions as to class, &c.)
 This engine has been built under special survey in accordance with the Rules and approved plans.
 The workmanship and materials are good.
 Running tests have been carried out at the Makers works with satisfactory results.
 The engine is being despatched to N.V. Nederlandse Scheepsbouw Maatschappij, Amsterdam, for fitting on board the vessel.

This engine has been properly fastened aboard and connected to a 2 stage compressor good.

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

Request form attached Sur. Rpt. No. 20814
 of 2035/P/13/12097-28/12/2.

The amount of Fee ...	£ 5	When applied for,	14.3.39
Travelling Expenses (if any) £	:	When received,	25.5.39

Please see London Ltr. 25-5-39
 FRI. 27 OCT 1939

Committee's Minute
 Assigned

See Am. No. 15788

Richard J. G. G. G.
 Surveyor to Lloyd's Register of Shipping.



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