

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20292

Received at London Office OCT -4 1937

Date of writing Report 1. 10 1937 When handed in at Local Office 1. 10 1937 Port of *Grimsby*
No. in Survey held at *Lincoln* Date, First Survey *November 26th 1936* Last Survey *30 - 9. 1937*
Reg. Book. Number of Visits *14*

on the *OVULA* Screw vessel Tons { Gross _____ Net _____
Single ~~Double~~ Triple Quadruple

Built at *Schiedam* By whom built *Wilton Tijenoud* Yard No. *662* When built *1927*

Owners *Anglo Saxon Petroleum Co.* Port belonging to _____

Oil Engines made at *Lincoln* By whom made *Ruston & Hornsby, Ltd* Contract No. *182935* When made *1927*

Generators made at _____ By whom made _____ Contract No. _____ When made _____

No. of Sets *1* Engine Brake Horse Power *60* Nom. Horse Power as per Rule *18.6* Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines *3 VCRZ Rules Injection Cold Starting 2 or 4 stroke cycle 4* Single or double acting *Single*

Maximum pressure in cylinders *700* 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 tons* Means of ignition *Compression* Kind of fuel used *Heavy Oil*

Crank Shaft, dia. of journals as per Rule *Approved* as fitted *6"* Crank pin dia. *4 3/4"* Crank Webs Mid. length breadth *8"* Thickness parallel to axis _____
Mid. length thickness *2 1/2"* Thickness around eye hole _____

Flywheel Shaft, diameter as per Rule *Approved* as fitted *6"* Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners *3/4"*

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*

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. No. of stages Diameters Stroke Driven by

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 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

PLANS. Are approved plans forwarded herewith for Shafting *11-11-32* Receivers Separate Tanks

SPARE GEAR *As per Rule requirements.*

Ruston & Hornsby, Limited,

The foregoing is a correct description,

J. L. Lough Manufacturer.

Manufacturer.

Ruston & Hornsby, Limited



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003659-003670-0080

Dates of Survey while building { During progress of work in shops - - 1936 Nov 26-30 Dec 3-14-21 1937 Jan 18 Mar 9 May 3 Jun 11 Jul 1 Aug 24 Sep 13-16-30
 { During erection on board vessel - - -
 Total No. of visits 14

Dates of Examination of principal parts—Cylinders 16-9-37 Covers 16-9-37 Pistons 16-9-37 Piston rods ✓
 Connecting rods 18-1-37 Crank and Flywheel shafts 9-3-37 Intermediate shafts ✓
 Crank and Flywheel shafts, Material *Steel* Identification Marks 325/c C.B. 9-3-37
 Intermediate shafts, Material ✓ Identification Marks ✓
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *See Gms. Opt. 20273.*

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 materials & workmanship are good. Running tests have been carried out at the Maker's works with satisfactory results. The engine has been despatched to Schiedam to the order of Wilton-Tijenoord.

*Request form attached.
 Ref 05119/P/IV.6982-36/IV.1162*

The amount of Fee ... *to be charged Annual Account* When applied for, 19.....
 Travelling Expenses (if any) £ When received, 19.....

W. H. Bell, J. L. H. Collinson
 Surveyor to Lloyd's Register of Shipping. *W. H. Bell*

Committee's Minute

FRI. 22 APR 1938

Assigned

See Rot. 26 26776



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