

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20292

Received at London Office OCT -4 1937

Date of writing Report 1. 10 37 When handed in at Local Office 1. 10 37 Port of *Grimsby*
 No. in Survey held at *Lincoln* Date, First Survey *November 26th 1936* Last Survey *30 - 9. 1937*
 Reg. Book. *OVULA* Number of Visits *1st*
 on the *Single* Screw vessel Tons { Gross _____ Net _____
 Built at *Schiedam* By whom built *Wilton Tijdsand* Yard No. *662* When built *1937*
 Owners *Anglo Saxon Petroleum Co.* Port belonging to _____
 Oil Engines made at *Lincoln* By whom made *Ruston & Hornsby, Ltd* Contract No. *182935* When made *1937*
 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 cwt.* Means of ignition *Compression* Kind of fuel used *Heavy Oil*
 Crank Shaft, dia. of journals *as per Rule. Approved 6"* Crank pin dia. *4 3/4"* Crank Webs *Mid. length breadth 8"* Thickness parallel to axis *shrunk*
 as fitted *as per Rule. Approved 6"* *Mid. length thickness 2 1/2"* Thickness around eye-hole *✓*
 Flywheel Shaft, diameter *as per Rule. Approved 6"* Intermediate Shafts, diameter *as per Rule. ✓* Thickness of cylinder liners *3/4"*
 as fitted *as fitted. ✓* 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 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 *✓*
 (If not, state date of approval)

SPARE GEAR *As per Rule requirements. ✓*

The foregoing is a correct description,
 Ruston & Hornsby, Limited,

E. L. Lough Manufacturer.

Ruston & Hornsby, Limited



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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 Enr. Aft. 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 5119/P/IV.6982-36/IV.1161

The amount of Fee ... 20 be charged Annual Account
Travelling Expenses (if any) £ When applied for, 19...
When received, 19...

Surveyor to Lloyd's Register of Shipping. J. de Vries

Committee's Minute

FRI. 22 APR 1938

Assigned

See Rot. 26776



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