

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20490.

t. 4c.

Received at London Office MAR 19 1938

Date of writing Report 16th March 1938 When handed in at Local Office 18.3.1938 Port of Grimsby

Survey held at Lincoln Date, First Survey 22.4.37 Last Survey 10th March 1938 Number of Visits 3

on the Single Screw vessel M/s 'Dawila' Tons Gross Net

built at Glasgow By whom built Lifford & Co. Yard No. 907 When built 1938

owners Anglo Saxon Petroleum Co. Ltd. Port belonging to London

Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE Contract No. 185384 When made 1938

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.

TYPE OF 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 lb. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3

Distance 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 Cwts. 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" Mid. length thickness 2 1/2" Thickness parallel to axis 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

Number of 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

Number of Compressors, No. 61859 H No. of stages Two Diameters Stroke Driven by Engine

Number of Sucking Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey State No. of Report or Certificate

Each receiver, which can be isolated, fitted with a safety valve as per Rule

Are 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

Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Number of Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

Unless, 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

Is an 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

Are the generators, are they compounded as per rule Is an adjustable regulating resistance fitted in series with each

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

Do the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

Do the generators are 100 kw. or over have they been built and tested under survey

ANS. Are approved plans forwarded herewith for Shafting 11. 11. 32 Receivers Separate Tanks

ARE GEAR

As per Rule requirements.

Ruston & Hornsby, Limited The foregoing is a correct description, B. Lynch Manufacturer.



