

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

COMPRESSOR

No. 20490.

Received at London Office MAR 19 1938

Date of writing Report 16<sup>th</sup> March 1938 When handed in at Local Office 18<sup>th</sup> 3<sup>rd</sup> 1938 Port of Grimsby  
 Date, First Survey 22. 4. 37 Last Survey 10<sup>th</sup> March 1938  
 Number of Visits 13  
 Name of vessel M/s 'Dawila'  
 Type of vessel Single Triple Quadruple Screw vessel  
 Built at PI - Glasgow By whom built Lithgou & Co. Ltd. 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.

**L ENGINES, &c.**—Type of Engines IVCRZ 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 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thinness parallel to axis  
as fitted 6" Mid. length thickness 2 1/2" shrunk Thinness around eye-hole  
 Flywheel Shaft, diameter as per Rule Approved 6" Intermediate Shafts, diameter as per Rule as fitted 3/4"  
 Is there a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Lubed  
 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  
 Compressors, No. 61859 H No. of stages Two Diameters ✓ Stroke ✓ Driven by Engine  
 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 ✓  
**Sucking 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 ✓  
 Voltage of supply ✓ volts. Full Load Current ✓ Amperes. Direct or Alternating Current ✓  
 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 ✓  
 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 ✓  
 (If not, state date of approval)

ARE GEAR

As per Rule requirements. ✓

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

B. Lough

Manufacturer.

Oil &amp; Gas Engine Dept



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Dates of Survey while building { During progress of work in shops - - } 1937 Apr 22 May 6-20 July 1922 Aug 12 Sep 20 Nov 12 Dec 20 1938 Jan 10 13 Feb 28 Mar 10  
 { During erection on board vessel - - - }  
 Total No. of visits 13

Dates of Examination of principal parts—Cylinders 13-1-38 Covers 13-1-38 Pistons 13-1-38 Piston rods ✓  
 Connecting rods 14-12-37 Crank and Flywheel shafts 12-11-37 Intermediate shafts ✓  
 Crank and Flywheel shafts, Material Steel ✓ Identification Marks LLOYD'S 3276 A-12-11-37 AS  
 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 *Gins Rptr No 20439*  
 General Remarks (State quality of workmanship, opinions as to class, &c.)

*This engine & compressor have 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 & compressor have been despatched to Greenock to the order of Messrs J. F. Kincaid & Co. Ltd for fitting on board the vessel.  
 This engine now securely fitted on board, tests found satisfactory*  
*Wm Gordon - Glasgow*  
*Wm Gordon*

Request from attached *Gins Rpt 20395*  
*92584/P/11.8434*  
*37/11.935.*

The amount of Fee ... £ *Sub charged*  
 Travelling Expenses (if any) £ *of account*  
 When applied for, 19...  
 When received, 19...

*Charles for J. L. H. Callum & Self*  
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 7 - JUN 1938**  
 Assigned *See Gins Rpt. No 20579*