

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 5469

Received at London Office 12 MAR 1948

Date of writing Report 9<sup>th</sup> March 19 48 When handed in at Local Office 9<sup>th</sup> March 19 48 Port of Bor de auif

No. in Survey held at La Rochelle Date, First Survey 30<sup>th</sup> August 1947 Last Survey 4<sup>th</sup> March 19 48

Reg. Book. 36894 on the Single Screw vessel "EL KARIM" or "ELAFRIT" Number of Visits

Built at Rochester By whom built Odenbach Shipbuilders Corp Yard No. When built 5 1944

Owners Cie Marocaine des Transports Maritimes Port belonging to Fedala

Oil Engines made at Long Island City By whom made John Reiner Contract No. When made 1944

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

No. of Sets 2 Engine Brake Horse Power M.N. as per Rule Total Capacity of Generators 60 Kilowatts.

Is Set intended for essential services yes

OIL ENGINES, &c.—Type of Engines 2 oil engines N<sup>os</sup> 3489 & 3490 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders Diameter of cylinders 5" 5 Length of stroke 8" 6 No. of cylinders 6 No. of cranks 6

Mean indicated pressure Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 3" 6

Is there a bearing between each crank yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) Revolutions per minute 1250

Flywheel dia. Weight Means of ignition Kind of fuel used gas oil

Crank Shaft, dia. of journals as per Rule 5" 6 Crank pin dia. 3" 6 Crank Webs Mid. length breadth shrunk Thickness parallel to axis

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

Are means provided to prevent racing of the engine when declutched Means of lubrication pumps Kind of damper if fitted

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged

Cooling Water Pumps, No. 2 fresh water Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size 2 in good condition

Air Compressors, No. None No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. None Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey None 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. None 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. 24 volts accumulators 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 Synchronous generators

Pressure of supply 220 volts Full Load Current 81 Amperes Direct or Alternating Current Alternating

Is an alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

on and off yes Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field yes

Are all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced

shielded that they cannot be accidentally earthed, short circuited, or touched well isolated Are the lubricating arrangements of the generators as per Rule yes

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 yes

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

Details of driven machinery other than generator Stamp None

PLANS.—Are approved plans forwarded herewith for Shafting No plans Receivers Separate Tanks

Have Torsional Vibration characteristics if applicable been approved No Armature shaft Drawing No.

SHAFTING GEAR Not complete

On board 14 liners 12 sets piston rings 1 cylinder cover, 2 fuel pumps

2 injection valves

Can be completed at the earliest convenient opportunity

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building  
During progress of work in shops - - -  
During erection on board vessel - - -  
Total No. of visits

Dates of Examination of principal parts—Cylinders... Covers... Pistons... Piston rods...  
Connecting rods... Crank and Flywheel shafts... Intermediate shafts...  
Crank shaft { Material... Tensile strength...  
Elongation... Identification Marks...  
Flywheel shaft, Material... Identification Marks...  
Identification marks on Air Receivers

Is this machinery duplicate of a previous case... If so, state name of vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

*Both auxiliary motors entirely examined & all cylinders with new liners fitted. The generators of both motors examined and tested under rule requirements. Both auxiliary motors satisfactorily tried under most condition.*

20,847-T. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below this space for Committee Minute.)

The amount of Fee ... £ : : { When applied for... 19  
Travelling Expenses (if any) £ : : { When received... 19

FRI, 23 APR 1948

Committee's Minute

Assigned

*See minute on Rot 30422*

