

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 5469

Date of writing Report 9th March 19 48 When handed in at Local Office 9th March 19 48 Port of Bor de auif Received at London Office 12 MAR 1948

No. in Survey held at La Rochelle Date, First Survey 30th August 1944 Last Survey 4th March 19 48

Reg. Book. 36894 on the Single Screw vessel Laucher "EL KARIM" or "ELAFRIT" Number of Visits 632

Built at Rochester By whom built Odenbach Shipbuilders Corp Yard No. 51944 When built 5 1944

Owners Compagnie des Transports Maritimes Port belonging to Tedala

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

Generators made at 2 By whom made 2 Contract No. 2 When made 2

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

Is Set intended for essential services yes

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

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

Mean indicated pressure 3" 6 Firing order in cylinders 1 4 3 2 5 6 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 m² or Kg.-cm.²) 1250 Revolutions per minute 1250

Flywheel dia. 140 Weight 894 Means of ignition shrunk Kind of fuel used gas oil

Crank Shaft, dia. of journals 5" 6 Crank pin dia. 3" 6 Crank Webs shrunk Mid. length breadth 140 Thickness parallel to axis shrunk

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²) as fitted

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

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 2 Diameters 2 Stroke 2 Driven by 2

Scavenging Air Pumps, No. none Diameter 2 Stroke 2 Driven by 2

AIR RECEIVERS:—Have they been made under Survey None State No. of Report or Certificate 2

Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes

Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces yes

Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. None Cubic capacity of each 24 volts accumulators Internal diameter 2 thickness 2

Seamless, lap welded or riveted longitudinal joint 24 volts accumulators Material 2 Range of tensile strength 2 Working pressure by Rules 2

Starting Air Receivers, No. 24 volts accumulators Total cubic capacity 2 Internal diameter 2 thickness 2

Seamless, lap welded or riveted longitudinal joint 2 Material 2 Range of tensile strength 2 Working pressure by Rules 2

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 yes

Are the generators shielded that they cannot be accidentally earthed, short circuited, or touched yes 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 yes 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 yes

Details of driven machinery other than generator None

PLANS.—Are approved plans forwarded herewith for Shafting No plans Receivers 2 Separate Tanks 2

Have Torsional Vibration characteristics if applicable been approved No Armature shaft Drawing No. 2

ARE 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.

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 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.).

Is this machinery duplicate of a previous case.....

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

The amount of Fee £

Travelling Expenses (if any) £

When applied for.....19.....

When received 19.....

Committee's Minute

Assigned

FRI, 23 APR 1948

See minutes on Vol 30422

Surveyor to Lloyd's Register of Shipping

Lloyd's Register
Foundation