

REPORT ON OIL ENGINE MACHINERY.

No. 73393
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Survey held at GLASGOW Date, First Survey 25-10-48 Last Survey 19

Book. Number of Visits

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel M.V. "KING ALFRED"

at GREENOCK By whom built GREENOCK DOCKYARD Co. LTD. Yard No. When built 1941

nes made at GLASGOW By whom made BARCLAY CURLE & Co. LTD. Engine No. EW131 When made 1941

ey Boilers made at GLASGOW By whom made BARCLAY CURLE & Co. LTD. Boiler No. When made 1941

e Horse Power 3350 Owners KING LINE LTD. Port belonging to LONDON

Power as per Rule Is Refrigerating Machinery fitted for cargo purposes NO Is Electric Light fitted YES

e for which vessel is intended GENERAL CARGO OPEN SEA SERVICE

ENGINES, &c. — Type of Engines DOxford OPPOSED PISTON OIL ENGINE 2 or 4 stroke cycle 2 Single or double acting SINGLE

imum pressure in cylinders 640 Diameter of cylinders 600 ⁷/₁₆ Length of stroke 2320 ⁷/₁₆ No. of cylinders 4 No. of cranks 12

Indicated Pressure 88.24 Ahead Firing Order in Cylinders 1, 3, 4, 2 Span of bearings, adjacent to the crank, measured inner edge to inner edge 1200 SIDE ROD CENTRES Is there a bearing between each crank YES Revolutions per minute 108

heat dia. 1950 ⁷/₁₆ A. Weight 1170 ⁸/₁₆ SCWTS Moment of inertia of flywheel (16lbs. in² or Kg.cm.²) Means of ignition COMPRESSION Kind of fuel used DIESEL OIL

nk ^{Solid forged} ~~Semi built~~ ~~All built~~ dia. of journals as per Rule as fitted 450 ⁷/₁₆ Crank pin dia. 450 ⁷/₁₆ Crank webs Mid. length breadth 820 ⁷/₁₆ Thickness parallel to axis Mid. length thickness 192 ⁷/₁₆ shrunk Thickness around eyehole

heel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted 14 ³/₈ Thrust Shaft, diameter at collars as fitted 450 ⁷/₁₆ as per Rule 34 ⁵/₈

e Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted 16 Is the { tube screw } shaft fitted with a continuous liner YES

ize Liners, thickness in way of bushes as per Rule as fitted 13 ¹/₁₆ Thickness between bushes as per Rule as fitted 5 ¹/₈ Is the after end of the liner made watertight in the

eller boss YES If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

he liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-

osive. — If two liners are fitted, is the shaft lapped or protected between the liners. — Is an approved Oil Gland or other appliance fitted at the after

f tube shaft NO If so, state type. — Length of bearing in Stern Bush next to and supporting propeller 5' 3"

eller, dia. 16 FT. Pitch 12 FT. No. of blades 4 Material MANG BRONZE whether moveable NO Total developed surface 86 sq. feet

ent of inertia of propeller (16lbs. in² or Kg.cm.²) Kind of damper, if fitted. —

hod of reversing Engines COMP AIR Is a governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of

ocation FORCED Thickness of cylinder liners 25 ⁷/₁₆ Are the cylinders fitted with safety valves YES Are the exhaust pipes and silencers water cooled

gged with non-conducting material LAGGED If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

to the engine. Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES

e Pumps worked from the Main Engines, No. NIL Diameter. — Stroke. — Can one be overhauled while the other is at work. —

ps connected to the Main Bilge Line { No. and size 2 OF TRANSFER 4 1/2 x 5 x 12 1 BILGE GS 13 x 10 x 24 1 BALLAST 12 1/2 x 14 x 24 How driven STEAM DRIVEN

e cooling water led to the bilges NO If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

gements.

ast Pumps, No. and size ONE 12 1/2 x 14 x 24 Power Driven Lubricating Oil Pumps, including spare pump, No. and size ONE 4 x 8 x 18 ONE M/E DRIVEN 120 ⁷/₁₆ x 395 ⁷/₁₆

two independent means arranged for circulating water through the Oil Cooler YES Suctions, connected to both main bilge pumps and auxiliary

pumps, No. and size: — In machinery spaces 4 - 3" 2 - 2 1/2 OILY BILGE In pump room —

olds, &c. NO 1 - 3" P.S. NO 2 - 3 1/2 P.S. DEEP TANK 2 1/2 P.S. NO 3 - 4 x 5 3" P.S.

pendent Power Pump Direct Suctions to the engine room bilges, No. and size 1 - 8" PORT 1 - 5" STARBORD

all the bilge suction pipes in holds and tunnel well fitted with strum-boxes YES Are the bilge suction in the machinery spaces led from easily

isible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges YES

all Sea Connections fitted direct on the skin of the Ship YES Are they fitted with valves or cocks VALVES & COCKS Are they fixed

iently high on the ship's side to be seen without lifting the platform plates YES Are the overboard discharges above or below the deep water line BELOW

they each fitted with a discharge valve always accessible on the plating of the vessel YES Are the blow off cocks fitted with a spigot and brass covering plate YES

t pipes pass through the bunkers. — How are they protected. —

t pipes pass through the deep tanks BILGE SUCTIONS NOS 1 & 2 HOLDS Have they been tested as per Rule. —

all pipes, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times YES

e arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery

s, or from one compartment to another. Is the shaft tunnel watertight. Is it fitted with a watertight door. worked from.

wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork.

Air Compressors, No. — No. of stages. — diameters. — stroke. — driven by. —

liary Air Compressors, No. TWO No. of stages. THREE diameters. — stroke. — driven by. —

l Auxiliary Air Compressors, No. — No. of stages. — diameters. — stroke. — driven by. —

provision is made for first charging the air receivers. STEAM DRIVEN COMPRESSORS

enging Air Pumps, No. ONE diameter. 1960 ⁷/₁₆ stroke. 608 ⁷/₁₆ driven by. MAIN ENGINE

liary Engines crank shafts, diameter as per Rule as fitted. — No. — Position. —

the auxiliary engines been constructed under special survey. Is a report sent herewith.

