

REPORT ON OIL ENGINE MACHINERY.

11/27/1939

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Writing Report *1st Mar 1939* when handed in at Local Office *9th Mar 1939* Port of *GREENOCK*

Survey held at *Greenock* Date, First Survey *21st OCTOBER 1934* Last Survey *6th Mar 1939*
 Number of Visits *99*

on the *Single* Screw vessel *S.H.D. "SOBIESKI"* Tons { Gross *11030*
 { Net *6351*

at *Newcastle* By whom built *Iron, Hunter & Wigham Builders Yard No. 1572* When built *1939*

nes made at *Greenock* By whom made *J. G. Kincaid & Co. Ltd.* Engine No. *K-113* When made *1939*

ey Boilers made at _____ By whom made _____ Boiler No. _____ When made _____

re Horse Power *8700* Owners *Gdynia-America Shipping Lines Ltd.* Port belonging to *Gdynia*

re Horse Power as per Rule *1716* Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

le for which vessel is intended _____

ENGINES, &c. Type of Engines *Heavy Oil: Airless Injection* 2 or 4 stroke cycle *2* Single or double acting *Double*

um pressure in cylinders *4.9 kg./cm.²* Diameter of cylinders *450 mm.* Length of stroke *1200 mm.* No. of cylinders *16* No. of cranks *16*

Indicated Pressure *6.2 kg./cm.²* Flywheel dia. *2400 mm.* Weight *G.D.²* Means of ignition *Compression* Kind of fuel used *Heavy oil*

of bearings, adjacent to the Crank, measured from inner edge to inner edge *854 mm.* Is there a bearing between each crank *Yes*

ations per minute *125* *Balance Weight 10,200 g. M.² G.D.²* Crank pin dia. *390 mm.* Crank Webs *Mid. length breadth 860 mm. shrunk Thickness parallel to axis 365 mm.*

ck aft, { *Solid forged* dia. of journals *as per Rule Approved* *as fitted 390 mm.* *Mid. length thickness 200 mm.* *Thickness around eyehole 210 mm.*

heel Shaft, diameter *as per Rule 1st Intermediate Shaft* *as per Rule* **Thrust Shaft, diameter at collars** *as per Rule approved*

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

ze Liners, thickness in way of bushes *as per Rule* Thickness between bushes *as per Rule* Is the after end of the liner made watertight in the

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

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-corrosive _____

o liners are fitted, is the shaft lapped or protected between the liners _____ Is an approved Oil Gland or other appliance fitted at the after end of the tube

_____ If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller _____

eller, dia. _____ Pitch _____ No. of blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. feet

od of reversing Engines *Direct* Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication

ed Thickness of cylinder liners *31 & 30 mm.* Are the cylinders fitted with safety valves *Yes* Are the exhaust pipes and enclosures water cooled or lagged with

nducting material *Yes* If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine _____

ng Water Pumps, No. _____ Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____

umps worked from the Main Engines, No. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____

ps connected to the Main Bilge Line { No. and Size _____ How driven _____

cooling water led to the bilges _____ 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 _____ Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size _____

wo independent means arranged for circulating water through the Oil Cooler _____ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

ps, No. and size:—In Machinery Spaces _____ In Pump Room _____

olds, &c. _____

pendent Power Pump Direct Suctions to the Engine Room Bilges, No. and size _____

all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes _____ Are the Bilge Suctions in the Machinery Spaces

om easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges _____

ll Sea Connections fitted direct on the skin of the ship _____ Are they fitted with Valves or Cocks _____

hey fixed sufficiently high on the ship's side to be seen without lifting the platform plates _____ Are the Overboard Discharges above or below the deep water line

hey each fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate

pipes pass through the bunkers _____ How are they protected _____

pipes pass through the deep tanks _____ Have they been tested as per Rule _____

ll Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____

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 spaces, or from one

artment 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 _____

1 Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

liary Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

ll Auxiliary Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

provision is made for first Charring the Air Receivers _____

enging Air Pumps, No. *Two - Each Engine* Diameter *Barneith & Wain's* Stroke *Rotary Type* Driven by *Main Engines*

liary Engines crank shafts, diameter *as per Rule* _____ *as fitted* _____ Position _____

the Auxiliary Engines been constructed under special survey _____ Is a report sent herewith _____



AIR RECEIVERS:—Have they been made under survey _____ Are reports or certificates now forwarded _____

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

Can the internal surfaces of the receivers be examined and cleaned _____

Is a drain fitted at the lowest part of each receiver _____

Injection Air Receivers, No. _____ Cubic capacity of each _____ Internal diameter _____ thickness _____

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

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

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

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

Is the donkey boiler intended to be used for domestic purposes only _____

PLANS. Are approved plans forwarded herewith for Shafting _____ Receivers _____ Separate Fuel Tanks _____

Donkey Boilers _____ General Pumping Arrangements _____ Pumping Arrangements in Machinery Space _____

Oil Fuel Burning Arrangements _____

SPARE GEAR.

Has the spare gear required by the Rules been supplied _____

State the principal additional spare gear supplied 1-Piston + best Iron Sleeve for piston rod: 2-sets piston rings: 2-sets piston cooling pipes

4-Links for cam shaft chain + 4 do. for blower chain: 1-Set each of crank pin + main bearing

3-Top + 3 bottom exhaust pistons: 1-Top + 1 bottom exhaust chamber: 2-Pairs eccentric to

end brasses: 8-Top + 8 bottom plungers + sleeves for fuel pumps: 1-Set scavenging

rotors + shafts: 1-Port + 1-starboard thrust block collar.

The foregoing is a correct description, For JOHN G. KINCAID & CO. LIMITED.

Director. 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, Rods, Connecting rods, Crank shaft, Flywheel shaft, Thrust shaft, Intermediate shafts, Tube shaft

Screw shaft, Propeller, Stern tube, Engine seatings, Engines holding down bolts

Completion of fitting sea connections, Completion of pumping arrangements, Engines tried under working conditions

Crank shaft, Material, Identification Mark, Flywheel shaft, Material, Identification Mark

Thrust shaft, Material, Identification Mark, Intermediate shafts, Material, Identification Marks

Tube shaft, Material, Identification Mark, Screw shaft, Material, Identification Mark

Is the flash point of the oil to be used over 150° F. Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with

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. These Engines & thrust shaft complings) have been built under special survey in accordance with the Rules & the approved plans: Materials & workmanship are good: they have been erected in the Works, examined under full load running trials & found satisfactory.

The Engines have been shipped to Newcastle fitting in the vessel. On completion of fitting out satisfactory trials this Machinery will be eligible in our opinion, to be classed in the Register with record & LMC - with date: Oil 1/3.

Approved plan herewith - Crank & Thrust shafts.

The amount of Entry Fee £ 6 : - : When applied for, 4th Special ... £ 114 : 6/ - : 9th MARCH 1939

Donkey Boiler Fee ... £ - : - : When received, 6 April 1939

Travelling Expenses (if any) £ - : - :

Committee's Minute GLASGOW 14 MAR 1939 WED 31 MAY 1939

Assigned by _____

Certificate (if required) to be sent to _____ (The Surveyors are requested not to write on or below the space for Committee's Minute.)

