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REPORT ON OIL ENGINE MACHINERY.

No. 72214

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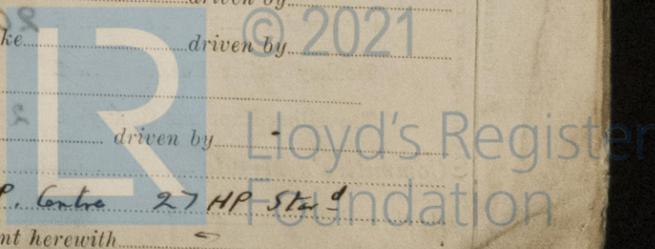
22 OCT 1947

of writing Report to 10 19 47 When handed in at Local Office 20 6 19 47 Port of Glasgow
in Survey held at Grangemount Date, First Survey 27. 6. 47 Last Survey 5- 9- 1947
Book. Number of Visits 6.

on the ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel ADULIS EX LCT (835) Tons Gross 397.3 Net 227.9
at By whom built converted Grangemount Dockyard Co Ltd Yard No. When built
ines made at Balchester By whom made Davy Paxman & Co Ltd Engine No. When made
key Boilers made at By whom made Boiler No. When made
ke Horse Power 345 Owners Sabean Utility Corporation Port belonging to Addis Ababa
n. Horse Power as per Rule 115 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes
de for which vessel is intended Coastal Service - Middle East

ENGINES, &c. — Type of Engines See Appendix Report 2 or 4 stroke cycle Single or double acting
imum pressure in cylinders Diameter of cylinders Length of stroke No. of cylinders No. of cranks
m Indicated Pressure
m of bearings, adjacent to the crank, measured from inner edge to inner edge Is there a bearing between each crank
olutions per minute Flywheel dia. Weight Means of ignition Kind of fuel used
nk dia. of journals as per Rule as fitted Crank pin dia. Crank webs Mid. length breadth Mid. length thickness shrunk Thickness parallel to axis
aft, Solid forged Semi built All built
wheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thrust Shaft, diameter at collars as fitted
oe Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted 3 1/2 Is the tube screw shaft fitted with a continuous liner No.
nze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted Is the after end of the liner made watertight in the
peller boss 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
of tube shaft No. If so, state type Length of bearing in Stern Bush next to and supporting propeller 15"
peller, dia. 36" Pitch No. of blades 4 Material Bronze whether moveable No. Total developed surface sq. feet
thod of reversing Engines gear Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of
rication Toned Thickness of cylinder liners Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled
ugged with non-conducting material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned
k to the engine Cooling Water Pumps, No. 4 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
ie Pumps worked from the Main Engines, No. None Diameter Stroke Can one be overhauled while the other is at work
mps connected to the Main Bilge Line No. and size 1-20 T/hr 1-10 T/hr How driven Electric
he 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
ngements
last Pumps, No. and size 1-10 T/hr Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2-1230 g/hr each
two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both main bilge pumps and auxiliary
e pumps, No. and size:—In machinery spaces 3-3" In pump room
olds, &c. 4-2" 1-2" in each wing tank 1-2" in steering compartment
ependent Power Pump Direct Suctions to the engine room bilges, No. and size 2-3"
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
ssible 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 Are they fixed
ciently 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 above
they 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
at pipes pass through the bunkers None How are they protected
at pipes pass through the deep tanks None 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
he 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
es, or from one compartment to another Yes 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
n Air Compressors, No. None No. of stages diameters stroke driven by
iliary Air Compressors, No. None No. of stages diameters stroke driven by
ll Auxiliary Air Compressors, No. None No. of stages diameters stroke driven by
at provision is made for first charging the air receivers
venging Air Pumps, No. None diameter stroke driven by
iliary Engines crank shafts, diameter as per Rule as fitted 3" No. Position 9 HP Centre 27 HP Star
e the auxiliary engines been constructed under special survey No. Is a report sent herewith

5720-051110-191110



AIR RECEIVERS:—Have they been made under survey..... 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 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.....

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

Seamless, lap welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

IS A DONKEY BOILER FITTED *No* 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 *Yes*.....

State the principal additional spare gear supplied *See separate list*.....

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..... Rods..... Connecting rods.....

Crank shaft..... Flywheel shaft..... Thrust shaft..... Intermediate shafts..... Tube shaft.....

Screw shaft *1-7-47* Propeller *1-7-47* Stern tube..... Engine seatings..... Engine holding down bolts *2-9-47*

Completion of fitting sea connections..... Completion of pumping arrangements *5-9-47* Engines tried under working conditions *5-9-47*

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 *Steel*..... Identification mark *M.W.C. 10/43*

Identification marks on air receivers.....

Is the flash point of the oil to be used over 150°F *Yes*.....

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with *Yes*.....

Description of fire extinguishing apparatus fitted *Portable hand operated chemical extinguishers*.....

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo *No*..... 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 *No*..... If so, state name of vessel.....

General Remarks (State quality of workmanship, opinions as to class, &c.).....

The main engines have been securely refitted on board the vessel. The auxiliary machinery has been opened up and examined and placed in good order and all tried under working conditions. This machinery is eligible in my opinion to be classed with a record L.M.C. 9-47, and notation T.S.

The amount of Entry Fee ... £ :
Special ... £ *20* :
Donkey Boiler Fee... £ :
Travelling Expenses (if any) £ *2* : *10* :
When applied for 19
When received 19

J.R. Gale
Engineer Surveyor to Lloyd's Register of Shipping



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

Committee's Minute
Assigned
GLASGOW
31 OCT 1947
ACCOMPANYING MACHINERY REPORT