

REPORT ON OIL ENGINE MACHINERY.

No. 45625

RECEIVED
Date of writing Report 26/6/50 19 When handed in at Local Office 28.6.50 19 Port of Glasgow
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No. in Survey held at 22520W Date, First Survey 20. 5. 49 Last Survey 5th July 1950
Reg. Book IN D.O. Number of Visits 85
on the Twin Triple Screw vessel M.V. "British Consul" Tons Gross 8655
Quadruple Net
Built at Glasgow By whom built Harkand & Co. Ltd Yard No. 13996 When built 1950
Engines made at Glasgow By whom made Harkand & Co. Ltd Engine No. 13996 When made 1950
Donkey Boilers made at Berfess By whom made Harkand & Co. Ltd Boiler No. 1446/5 When made 1950
Brake Horse Power 3200 max Owners British Tanker Co. Ltd Port belonging to London
M.N. Power as per Rule 696 NHP = 489 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
Trade for which vessel is intended Ocean Going

OIL ENGINES, &c. — Type of Engines Heavy Oil Airless Injection 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 650 lbf/sq in Diameter of cylinders 29 1/8 in Length of stroke 15 1/2 in No. of cylinders 6 No. of cranks 6
Mean Indicated Pressure 128 lbf/sq in Ahead Firing Order in Cylinders 1.5.3.6.2.4 Span of bearings, adjacent to the crank, measured from inner edge to inner edge 9 1/2 in Is there a bearing between each crank Yes Revolutions per minute 119 MAX 1115 SERVICE
Flywheel dia. 24 1/2 in Weight 2590 lbs Moment of inertia of flywheel (lbs in² or Kg m²) 2350 Means of ignition Comp. Kind of fuel used Diesel Oil
Crank Shaft, Solid forged dia. of journals as per Rule APPP Crank pin dia. 5 1/2 in Crank webs Mid. length breadth 8 1/4 in Thickness parallel to axis 3 1/4 in
Semi built as fitted 5 1/2 in with 11 1/2 in hole Crank webs Mid. length thickness 3 1/4 in shrunk Thickness around eye hole 2 1/2 in
All built as fitted 5 1/2 in with 11 1/2 in hole
Flywheel Shaft, diameter as per Rule APPP Intermediate Shafts, diameter as fitted 1 1/2 in Thrust Shaft, diameter at collars as fitted 4 1/2 in
as fitted 1 1/2 in as per Rule APPP as fitted 1 1/2 in
Tube Shaft, diameter as per Rule APPP Screw Shaft, diameter as fitted 1 1/2 in Is the shaft fitted with a continuous liner Yes
as fitted 1 1/2 in as per Rule APPP as fitted 1 1/2 in
Bronze Liners, thickness in way of bushes as per Rule APPP Thickness between bushes as fitted 2 1/2 in Is the after end of the liner made watertight in the propeller boss Yes
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes
If the 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 Yes
If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of tube shaft No
If so, state type Yes Length of bearing in Stern Bush next to and supporting propeller 60 in
Propeller, dia. 15'-6" Pitch 12'-0" No. of blades 4 Material Mang. Alloy whether moveable No Total developed surface 45 sq. feet
Moment of inertia of propeller (lbs in² or Kg m²) 100.20 Kg m² Kind of damper, if fitted None
Method of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when decelerated Yes
lubrication Hrod Thickness of cylinder liners 202 H Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged
If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine Yes
Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
Bilge Pumps worked from the Main Engines, No. 2 Diameter 8 in Stroke 8 in Can one be overhauled while the other is at work Yes
Pumps connected to the Main Bilge Line No. and size 2 Bilge Duplex 8 x 8 1/2 x 8 1. Bilge Duplex 9 x 10 x 10
How driven Steam Steam
Is the 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 arrangements Yes
Ballast Pumps, No. and size 1 @ 9 x 10 x 10 (40 T/Hr) Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1 @ 8 x 9 x 10 (100 T/Hr) 1528 x 150 T/Hr
Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both main bilge pumps and auxiliary bilge pumps, No. and size:—In machinery spaces 1 @ 3 1/2 x 1 1/2 x 1 1/2 (22-32) 4 in (space) In pump room Yes
In holds, &c. Yes
Independent Power Pump Direct Suctions to the engine room bilges, No. and size 2 @ 6" : 1 @ 8"
Are all the bilge suction pipes in holds and tunnel well fitted with strum-boxes Yes Are the bilge suction pipes in the machinery spaces led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes
Are all Sea Connections fitted direct on the skin of the Ship Yes Are they fitted with valves or cocks Both Are they fixed efficiently 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
Are 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
That pipes pass through the bunkers None How are they protected Yes
That pipes pass through the deep tanks None Have they been tested as per Rule Yes
Are all pipes, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times Yes
Is the 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 compartment to another Yes Is the shaft tunnel watertight None Is it fitted with a watertight door Yes
If the vessel is a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork Yes
Main Air Compressors, No. None No. of stages 1 diameters 280-245 in stroke 130 in driven by Steam
Auxiliary Air Compressors, No. Two No. of stages 2 diameters 280-245 in stroke 130 in driven by Steam
Small Auxiliary Air Compressors, No. None No. of stages 1 diameters 280-245 in stroke 130 in driven by Steam
What provision is made for first charging the air receivers Two steam driven compressors as above
Savenging Air Pumps, No. None (under piston lubrication) diameter 180 in stroke 180 in driven by Steam
Auxiliary Engines crank shafts, diameter as per Rule APPP as fitted 180 in Position 1 @ 1528 x 150 T/Hr 1 @ 1528 x 150 T/Hr 1 @ 1528 x 150 T/Hr
Have the auxiliary engines been constructed under special survey Yes Is a report sent herewith Yes

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