

REPORT ON OIL ENGINE MACHINERY.

No. _____

Received at London Office _____

Writing Report _____ 19 _____ When handed in at Local Office _____ 19 _____ Port of _____

Survey held at _____ Date, First Survey _____ Last Survey _____ 19 _____
Number of Visits _____Type of vessel Single M/V "IDOMENEUS"
Belfast By whom built Workman, Clarke Yard No. _____ When built 1926
By whom made Burne & Wain Engine No. _____ When made 1926

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

Horse Power 3,300 at 114 RPM Owners _____ Port belonging to _____

Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

for which vessel is intended _____

Type of Engines _____ 2 or 4 stroke cycle 4 Single or double acting SINGLEMean pressure in cylinders 560 lb Diameter of cylinders 740 1/2 Length of stroke 1500 1/2 No. of cylinders 8 each No. of cranks 8 eachIndicated Pressure 93.5 lb Ahead Firing Order in Cylinders _____ Span of bearings, adjacent to the crank, measured
inner edge to inner edge 1010 1/2 (998) Is there a bearing between each crank YES Revolutions per minute 110 (114.5)Piston dia. 2134 1/2 Weight 2 TONS Moment of inertia of flywheel (lbs. in² or Kg. cm.²) _____ Means of ignition _____ Kind of fuel used _____Solid forged as per Rule dia. of journals 486 Crank pin dia. 486 Crank webs _____ Mid. length breadth 825 Thickness parallel to axis _____
Semi built as fitted Crank webs _____ Mid. length thickness 283 shrunk Thickness around eyehole 312
All built _____

Fitted on crank coupling _____ Intermediate Shafts, diameter _____ as fitted _____ Thrust Shaft, diameter at collars _____ as fitted _____

Shaft, diameter _____ as fitted _____ Screw Shaft, diameter _____ as fitted _____ Is the (tube screw) shaft fitted with a continuous liner _____

Liners, thickness in way of bushes _____ as fitted _____ Thickness between bushes _____ as fitted _____ Is the after end of the liner made watertight in the
stern boss _____ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner _____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-
volatile _____ 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
end of shaft _____ If so, state type _____ Length of bearing in Stern Bush next to and supporting propeller _____

Pitch _____ No. of blades _____ Material _____ whether moveable _____ Total developed surface _____ sq. feet

Moment of inertia of propeller (lbs. in² or Kg. cm.²) _____ Kind of damper, if fitted _____Method of reversing Engines DIRECT Is a governor or other arrangement fitted to prevent racing of the engine when declutched _____ Means of
operation _____ Thickness of cylinder liners _____ Are the cylinders fitted with safety valves _____ Are the exhaust pipes and silencers water cooled
with non-conducting material _____ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned
from the engine _____

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

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

connected to the Main Bilge Line { No. and size 1 CENTRIFUGAL BILGE (150 T/HR) 1 CENTRIFUGAL BALLAST (200 T/HR) Electric Electric
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
arrangements _____Pumps, No. and size _____ Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 UNITS = 4 PUMPS. ELEC. DRIVEN.
120 T/HR per unitIndependent 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 _____ In pump room _____

Suctions, &c. _____

Independent Power Pump Direct Suctions to the engine room bilges, No. and size _____

Are the bilge suction pipes in holds and tunnel well fitted with strum-boxes _____ 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 _____Sea Connections fitted direct on the skin of the Ship _____ Are they fitted with valves or cocks _____ Are they fixed
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 _____

Are 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 _____

Do pipes pass through the bunkers _____ How are they protected _____ Have they been tested as per Rule _____

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

Are 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
space or from one compartment to another _____ Is the shaft tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

If a 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 _____

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

Provision is made for first charging the air receivers _____

Air Pumps, No. _____ diameter _____ stroke _____ driven by _____

Do Engines crank shafts, diameter _____ as per Rule _____ No. _____ Position _____

Do auxiliary engines been constructed under special survey _____ Is a report sent herewith _____

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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..... FUSIBLE PLUG ON RECS SAFETY VALVE ON COMPRESSORS
Can the internal surfaces of the receivers be examined and cleaned..... YES..... Is a drain fitted at the lowest part of each receiver..... YES.....
Injection Air Receivers, No. NONE..... Cubic capacity of each..... Internal diameter..... thickness.....
Seamless, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....
Starting Air Receivers, No. 2..... Total cubic capacity 2600 c.ft. Internal diameter 7'-2" thickness 1 3/8"
Seamless, welded or riveted longitudinal joint RIVETED Material STEEL Range of tensile strength..... Working pressure.....

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 tank.....
(If not, state date of approval)
Donkey boilers..... General pumping arrangements..... Pumping arrangements in machinery space.....
Oil fuel burning arrangements.....
Have Torsional Vibration characteristics been approved..... Date of approval.....

SPARE GEAR.

Has the spare gear required by the Rules been supplied.....
State the principal additional spare gear supplied.....

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..... Propeller..... Stern tube..... Engine seatings..... Engine 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.....

Identification marks on air receivers.....

Welded receivers, state Makers' Name.....

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.....

Description of fire extinguishing apparatus fitted.....

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, Speed restrictions, &c.....)

The amount of Entry Fee ... £ : :
Special ... £ : : When applied for 19
Donkey Boiler Fee... £ : : When received 19
Travelling Expenses (if any) £ : :
Engineer Surveyor to Lloyd's Register of

Committee's Minute

Assigned

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