

## REPORT ON OIL ENGINE MACHINERY.

No. 3369

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 Survey held at Monroe, Clarendville & St. John's, NFL., Date, First Survey 19th May Last Survey 27th Feb. /48  
 Port of St. John's, NFL., Number of Visits 12.

4403 on the <sup>Single</sup> ~~Triple~~ ~~Quadruple~~ Screw vessel Wood Motor Vessel "TERRA NOVA" Tons { Gross 379  
 Net 240

at Monroe, NFL., By whom built Henry W. Stone, and Newfoundland Shipyards, LTD. Yard No. - When built 1947  
 ed out at Clarendville, NFL. By whom made Cooper-Bessemer, Corp. Engine No. 3706 When made 1946  
 es made at Grove City, Pa. By whom made - Boiler No. - When made -

ey Boilers made at - By whom made - When made -

Horse Power 425 Owners Bowring Brothers, Limited. Port belonging to St. John's, NFL.,

Horse Power as per Rule M.N. 99 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted yes

for which Vessel is intended General trading in summer months, and Sealing in NFL. waters in winter.

ENGINES, &c.—Type of Engines Diesel Propulsion Direct Rever- 2 or 4 stroke cycle 4 Single or double acting single  
 sible with sailing clutch.

um pressure in cylinders 600 lbs. Diameter of cylinders 13" Length of stroke 16" No. of cylinders 6 No. of cranks 6

Indicated Pressure 87.5

f bearings, adjacent to the Crank, measured from inner edge to inner edge 14" Is there a bearing between each crank yes

tions per minute 325 Flywheel dia. 53" Weight 2670 lbs. Means of ignition Solid Injection Kind of fuel used heavy oil

ft, { Solid forged as per Rule 9" Crank pin dia. 9" Crank Webs Mid length breadth shrunk Thickness parallel to axis  
 { Semi built dia. of journals as fitted 9" Mid length thickness Thickness around eye hole  
 { All built

eel Shaft, diameter as per Rule 9" Intermediate Shafts, diameter as per Rule 7 1/2" Thrust Shaft, diameter at collars as per Rule 7.75"

Shaft, diameter as per Rule - Screw Shaft, diameter as per Rule 7" Monel Is the shaft fitted with a continuous liner No

as fitted - Thickness between bushes as per Rule - Is the after end of the liner made watertight in the

er boss No 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 rubber bush

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 25 1/2" (Spare Monel)

ller, dia. 72" Pitch 46" No. of blades 3 Material Bronze whether Moveable No. Total Developed Surface sq. feet

d of reversing Engines Sliding Cam shaft. a governor or other arrangement fitted to prevent racing of the engine when decelerated yes Means of lubrication

Feed thickness of cylinder liners - Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with

ducting material - If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine -

g Water Pumps, No. 1- F.W.-125 GPM. Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Pumps worked from the Main Engines, No. 1 Diameter 1" Stroke Rotary Can one be overhauled while the other is at work yes

s connected to the Main Bilge Line { No. and Size 1-2 1/2" suction capacity 90 gals per min., 1-2" - 150 gal capacity.  
 How driven Belt driven off 8 HP. Lister Engine, & from Belts off Main Engine.

ooling 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

ments - attached Main Engine

t Pumps, No. and size None Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 2-Indepd. 67-5 GPM.

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

No. and size:—In Machinery Spaces 3-2 1/2", 1-1", and 1-3" direct In Pump Room -

ds, &c. 2-2", and 1-3" deck hand pump

endent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-3", and 1-3" deck hand pump

the Bilge Suction pipes in Holds and Tunnel Wall fitted with strainers yes Are the Bilge Suctions in the Machinery Spaces

n easily accessible and boxes, placed above the level of the working floor, with straight tail pipes to the bilges yes

Sea Connections fitted direct on the skin of the ship to spool pieces, yes. Are they fitted with Valves or Cocks valves

y fixed sufficiently high on the ship's side to be seen without lifting the platform plates no Are the Overboard Discharges above or below the deep water line yes

y each fitted with a Discharge Valve always accessible on the planking of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate

ipes pass through the bunkers none How are they protected -

ipes pass through the deep tanks none Have they been tested as per Rule -

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

angement of valves and their connections such as to prevent the possibility of water passing from the sea into the cargo or machinery spaces, or from

partment to another yes Is the Shaft Tunnel watertight none Is it fitted with a watertight door - worked from -

od vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork drip trays arranged for.

Air Compressors, No. one No. of Stages two Diameters 5 1/2" x 3" Stroke 3 1/2" Driven by belt drive

ary Air Compressors, No. one No. of Stages two Diameters 4 x 2 1/2" Stroke 3 Driven by belt drive

Auxiliary Air Compressors, No. - No. of Stages - Diameters - Stroke - Driven by -

provision is made for first Charging the Air Receivers Aux. Diesel Engine driving compressor by belt arrangs. & clutch gear.

enging Air Pumps, No. - Diameter - Stroke - Driven by -

liary Engines crank shafts, diameter as per Rule - No. 8 HP. Lister-Blackstone Diesel Engine.

as fitted 2.373" Position Fore & Aft.

the Auxiliary Engines been constructed under special survey yes Is a report sent herewith yes (Cleveland No. 1198).

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