

## REPORT ON OIL ENGINE MACHINERY.

No. 40220<sup>B</sup>

E6 OCT 1955

Received at London Office

Date of writing Report 23 - 0 - 1955 When handed in at Local Office 19 Port of Rotterdam  
No. in Survey held at 33585 on the Single Twin Triple Quadruple Screw vessel MV "Gili Ginting" Date, First Survey 1 - 6 - 1954 Last Survey 18 - 0 - 1955  
Reg. Book. 33585 Tons Gross 1012 Net 450  
Built at Amsterdam By whom built Werkspoor NV Yard No. 651 When built 1955  
Engines made at Amsterdam By whom made Werkspoor NV Engine No. 1796 When made 1955  
Donkey Boilers made at Amsterdam By whom made Werkspoor NV Boiler No. 1 When made 1955  
Brake Horse Power { Maximum 1300 Service 1276 Owners Indonesian Government Port belonging to Kalangan  
M.N. as per Rule 176 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓  
Trade for which vessel is intended Ocean going service

IL ENGINES, &c. — Type of Engines Heavy oil T.M.A.S. 3910 2 or 4 stroke cycle Single or double acting  
Maximum pressure in cylinders 1300 Diameter of cylinders 1300 Length of stroke 1300 No. of cylinders 1300 No. of cranks 1300  
Mean Indicated Pressure 1300 Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 1300 Is there a bearing between each crank ✓ Revolutions per minute { Maximum 1300 Service 1300  
Flywheel dia. 1300 Weight 1300 Moment of inertia of flywheel (lbs. in<sup>2</sup> or Kg. cm<sup>2</sup>) 1300 Means of ignition 1300 Kind of fuel used 1300  
Crank Shaft, { Solid forged ✓ as per Rule 1300 Crank pin dia. 1300 Crank webs { Mid. length breadth 1300 Mid. length thickness 1300 Thickness parallel to axis 1300 Thickness around eye-hole 1300  
Flywheel Shaft, diameter 1300 Intermediate Shafts, diameter 1300 Thrust Shaft, diameter at collars 1300  
Tube Shaft, diameter 1300 Screw Shaft, diameter 1300 Is the { tube 1300 screw 1300 shaft fitted with a continuous liner 1300  
Bronze Liners, thickness in way of bushes 1300 Thickness between bushes 1300 Is the after end of the liner made watertight in the propeller boss 1300  
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner 1300  
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 1300  
If two liners are fitted, is the shaft lapped or protected between the liners 1300 Is an approved Oil Gland fitted at the after end of stern tube 1300  
Propeller, dia. 1300 Pitch 1300 No. of blades 1300 Material 1300 whether moveable 1300 Total developed surface 1300 sq. feet  
Moment of inertia of propeller including entrained water (lbs. in<sup>2</sup> or Kg. cm<sup>2</sup>) 1300 Kind of damper, if fitted 1300  
Method of reversing Engines 1300 Is a governor or other arrangement fitted to prevent racing of the engine 1300 Means of lubrication 1300  
Thickness of cylinder liners 1300 Are the cylinders fitted with safety valves 1300 Are the exhaust pipes and silencers water cooled 1300  
If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine 1300  
Cooling Water Pumps, No. and how driven 1300 Working F.W. 1300 S.W. 1300 Spare F.W. 1300 S.W. 1300 Is the sea suction provided with an efficient strainer which can be cleared within the vessel 1300  
Bilge Pumps worked from the Main Engines, No. and capacity 1300 Can one be overhauled while the other is at work 1300  
Pumps connected to the Main Bilge Line { No. and capacity of each 1300 How driven 1300  
Is the cooling water led to the bilges 1300 If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping arrangements 1300  
Ballast Pumps, No. and capacity 1300 Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1300  
Are two independent means arranged for circulating water through the Oil Cooler 1300 Branch Bilge Suctions 1300  
No. and size: In machinery spaces 1300 In pump room 1300  
In holds, &c. 1300 In holds 1300 In steering engine room 1300 In chain locker 1300 In cofferdam 1300  
Direct Bilge Suctions to the engine room bilges, No. and size 1300  
Are all the bilge suction pipes in holds and tunnel well fitted with strum-boxes 1300 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 1300  
Are all Sea Connections fitted direct on the skin of the Ship 1300 Are they fitted with valves or cocks 1300 Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates 1300  
Are the overboard discharges above or below the deep water line 1300  
Are they each fitted with a discharge valve always accessible on the plating of the vessel 1300 Are the blow off cocks fitted with a spigot and brass covering plate 1300  
What pipes pass through the bunkers 1300 How are they protected 1300  
What pipes pass through the deep tanks 1300 Have they been tested as per Rule 1300  
Are all pipes, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times 1300  
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 1300 Is the shaft tunnel watertight 1300 Is it fitted with a watertight door 1300 worked from 1300  
If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork 1300  
Main Air Compressors, No. 1300 No. of stages 1300 diameters 1300 stroke 1300 driven by 1300  
Auxiliary Air Compressors, No. 1300 No. of stages 1300 diameters 1300 stroke 1300 driven by 1300  
Small Auxiliary Air Compressors, No. 1300 No. of stages 1300 diameters 1300 stroke 1300 driven by 1300  
What provision is made for first charging the air receivers 1300  
Scavenging Air Pumps or Blowers, No. 1300 How driven 1300  
Have they been made under survey 1300 including all pumps 1300 Engine Nos. 1300 Position of each in engine room 1300  
Auxiliary Engines 1300 Makers name 1300 Report No. 1300

0109433-0109442-0208

Dusseldorf 1:8089.  
Katharinen 1:2919H. pt. 4

**AIR RECEIVERS:**—Have they been made under survey Yes State No. of report or certificate Katharinen 1:2919H  
State full details of safety devices Spring loaded safety valves  
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. ✓ 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 + 1 bottle Total cubic capacity 5,000 + 140 lbs Internal diameter 7.68 in H thickness 16 m H  
Seamless, welded or riveted longitudinal joint Welded Material St Steel Range of tensile strength ✓ Working pressure 30 kg/cm<sup>2</sup> 300 P.S.I.

**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 17-5-54 Receivers ✓ Separate fuel tanks ✓  
(If not, state date of approval)  
Donkey boilers ✓ General pumping arrangements 10-12-53 Pumping arrangements in machinery space 10-12-53  
Oil fuel burning arrangements ✓  
Have Torsional Vibration characteristics been approved Yes Date and particulars of approval 4-6-54

#### SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes State if for "short voyages" only ✓  
State the principal additional spare gear supplied Spare tailshaft + cast iron propeller

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building  
During progress of work in shops - ✓  
During erection on board vessel - 1-6-1954 20/11 15/13 21/14 10-25/15 7-23/16 6-18-20/17 16-17-10/10-1955  
Total No. of visits 13  
Dates of examination of principal parts—Cylinders ✓ Covers ✓ Pistons ✓ Rods ✓ Connecting rods ✓  
Crank shaft ✓ Flywheel shaft ✓ Thrust shaft ✓ Intermediate shafts 7-23/55 Tube shaft ✓  
Screw shaft 10/5-55 Propeller 10/5-55 Stern tube 21/4-55 Engine seatings 7-23/6-55 Engine holding down bolts 7-23/6-55  
Completion of fitting sea connections 10/5-55 Completion of pumping arrangements 20-7-55 Engines tried under working conditions 17-10/10-55  
Crank shaft, material ✓ Identification mark 120403 ANS Flywheel shaft, material ✓ Identification mark 120403 ANS  
Thrust shaft, material St Steel Identification mark 7.68 1-1-54 Intermediate shafts, material St Steel Identification marks AB 11-5-55  
Tube shaft, material ✓ Identification mark ✓ Screw shaft, material St Steel Identification mark HA/E 1109-3-54  
Identification marks on air receivers 1/10215/12/06 1/10215/10/03 Bottle 1:2919H 120403 ANS  
120403 TEST 6089 W.P. 300 P.S.I. A.B. 10-5-53 W.P. 300 P.S.I. T.D.S. 12-9-54 AB 13-9-54  
Welded receivers, state Makers' Name ✓

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  
Full description of fire extinguishing apparatus fitted in machinery spaces 2 hoses with nozzles to deck wash line, 2 portable 10 gall. + 4 x 12 gall fire foam extinguishing apparatus  
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 ✓  
What is the special notation desired ✓

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 Yes If so, state name of vessel M.V. Gih Yang

**General Remarks** (State quality of workmanship, opinions as to class, Speed restrictions, &c.)  
The machinery of this vessel has been made and fitted in accordance with the approved plans, Secretary's letters and Society's Rules. Materials tested as required and workmanship found good. Explosion relief safety devices are fitted on main engine.  
Upon completion the machinery has been tried under full working conditions during a 2 day's trial trip to the North Sea when all was found to be in a good working and manoeuvring condition and in my opinion this installation merits the approval of the Committee to be recorded with the record of + L.M.C. 8.55 O.G. Oil engines in the Society's Register Book.

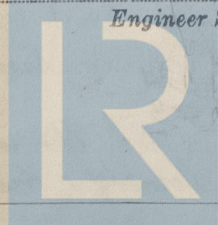
The amount of Entry Fee fitting £572.00  
Special ... .. £ : When applied for 3.10. 1955  
Donkey Boiler Fee... .. £ : When received 19  
Travelling Expenses (if any) £ 125.00

Committee's Minute

Assigned + L.M.C. 8.55

O.G.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
Foundation