

# REPORT ON OIL ENGINE MACHINERY.

No. 38911 B

31 JAN 1955

Received at London Office

Writing Report 10-12-1954 When handed in at Local Office 19 Port of Rotterdam

Survey held at Hallbommel Date, First Survey 10-6-53 Last Survey 10-11-1954 Number of Visits 14

Single Screw vessel MV Gili-Jang Tons Gross 997 Net 454

By whom built Messrs 'de Waal' Yard No. 650 When built 1954

By whom made 'Werkspoor NV' Engine No. 1795 When made 1954

Boilers made at By whom made Boiler No. When made

Owners Indonesian Government Port belonging to Kaliengul

Maximum Service 1300 276 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes

For which vessel is intended Ocean going service

Engines &c. Type of Engines T.M.A.S. 3960 2 or 4 stroke cycle 4 Single or double acting Single

Mean pressure in cylinders 50 kg/cm<sup>2</sup> Diameter of cylinders 390 mm Length of stroke 600 mm No. of cylinders 10 No. of cranks 10

Indicated Pressure 6.04 kg/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in a crank) 492 mm Is there a bearing between each crank Yes Revolutions per minute Maximum 275 Service

Wheel dia. 1500 mm Weight 1240 kg Moment of inertia of flywheel (lbs. in<sup>2</sup> or Kg. cm<sup>2</sup>) Means of ignition Compression kind of fuel used Diesel

(Solid forged) dia. of journals as per Rule. Appx. 105 as fitted 310 mm Crank pin dia. 300 mm Crank webs Mid. length breadth 700 mm Thickness parallel to axis shrunk Thickness around eyehole

Propeller Shaft, diameter as per Rule. as fitted Intermediate Shafts, diameter as per Rule. as fitted Thrust Shaft, diameter at collars as per Rule. as fitted

Shaft, diameter as per Rule. as fitted Screw Shaft, diameter as per Rule. as fitted Is the tube screw shaft fitted with a continuous liner no

Liners, thickness in way of bushes as per Rule. as fitted Thickness between bushes as fitted Is the after end of the liner made watertight in the

Liner boss 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-

ive If two liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland fitted at the after

stern tube Yes If so, state type Dam padlock Length of bearing in Stern Bush next to and supporting propeller 1000 mm

Propeller, dia. 1410 mm Pitch 1585 mm No. of blades 4 Material Bronze whether moveable Total developed surface 40% sq feet

Moment of inertia of propeller including entrained water (lbs. in<sup>2</sup> or Kg. cm<sup>2</sup>) 1369 kg. m<sup>2</sup> Kind of damper, if fitted

Means of reversing Engines Diesel Is a governor or other arrangement fitted to prevent racing of the engine Yes

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled

Thickens of cylinder liners 30 mm If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

to the engine to funnel Cooling Water Pumps, No. and how driven 3 for Main eng. 4 for Aux. eng. Working F.W. 1000 l/h

Spare F.W. 1000 l/h S.W. 2050 l/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Pumps worked from the Main Engines, No. and capacity Can one be overhauled while the other is at work

connected to the Main Bilge Line No. and capacity of each 2050 l/h How driven Electric

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

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18/2/55

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The Institution of Mechanical Engineers  
Nottingham City 18616-17-18 Adam 19594

**AIR RECEIVERS:**—Have they been made under survey Yes State No. of report or certificate D/L 7322-24  
 State full details of safety devices Spring loaded safety valves Stoughton C190 22  
 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 5000+140 lb Internal diameter 7.68 in thickness 16 in  
 Seamless, welded or riveted longitudinal joint Welded Material St. Steel Range of tensile strength 44.5-45.6 Working pressure 30 lb  
**IS A DONKEY BOILER FITTED** no If so, is a report now forwarded ✓ Bottle 300 lb

Is the donkey boiler intended to be used for domestic purposes only ✓  
**PLANS.** Are approved plans forwarded herewith for shafting 16-2-54 Receivers 16-1-54 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 cast iron propeller. Spare tailshaft. Spare

The foregoing is a correct description,  
 SCHIFF SYRACUSE

		Manufacturer.									
Dates of Survey while building	During progress of work in shops - -	✓									
	During erection on board vessel - - -	20/16-53	7-15/14	8-24/15	1-22/16	28/17	0-17/19	19/19	5-10-26/11	1954	
	Total No. of visits	14									
Dates of examination of principal parts—Cylinders		✓									
Crank shaft		✓									
Screw shaft		15/15									
Completion of fitting sea connections		14									
Crank shaft, material		✓									
Thrust shaft, material		✓									
Tube shaft, material		✓									
Identification marks on air receivers		✓									

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 on deck and in engine room  
 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 ✓  
 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 no If so, state name of vessel ✓

**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.  
Upon completion the machinery has been tried under full working conditions during a 1 day's trial trip by the North Sea when all was found to be in a good working and manoeuvring condition and in my opinion the machinery of this vessel merits the approval of the Committee to be recorded with the word of H.L.M.C. 11-54 in the Society's Register Book.

The amount of Entry Fee ... £ 1572.00  
 Special ... £ :  
 Donkey Boiler Fee... £ :  
 Travelling Expenses (if any) £ 137.00  
 When applied for 28.1.1955  
 When received 19

A. Hassell  
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute See Rpt. 4 C.  
 Assigned See Rpt. 4 C.



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