

Certificate of Class

9234135
IMO-No.

094961
GL-Register-No.

This is to certify that the Motor Ship

" APL DALIAN "

Flag	Republic of Singapore	Call Sign	S6HU6
Port of Registry	Singapore		
Owner	APL (Bermuda) Ltd.		
Shipyard	Aker MTW Werft GmbH		
Place of Build	Wismar		
Completion	2002-09-01		

has been surveyed at **Singapore**
on **2007-07-28** by our Surveyor(s) in accordance with this Society's Rules.

Character of Class:

Hull	<input checked="" type="checkbox"/> 100 A5 E with freeboard 5.035 m IW SOLAS-II-2, Reg.19 G2P57 Container Ship
Machinery	<input checked="" type="checkbox"/> MC E AUT

Period of Class running from **1st October 2007**
This Certificate is valid until **30th September 2012**

provided that prescribed surveys are effected by their due dates.

Germanischer Lloyd

Singapore, 28th July 2007



(K. S. Lam)



Germanischer Lloyd

This Certificate of Class is valid only in connection with the Technical File and all endorsements made by Surveyors to Germanischer Lloyd on Survey Statements in respect of this vessel. The latest edition of the General Terms and Conditions of Germanischer Lloyd is applicable (see Chap. I-Ship Technology, Part 0-Classification and Surveys). Germanischer Lloyd Aktiengesellschaft, Registered Office Hamburg, HR B 31393

Technical File

Identification

GL-Register-No. **94961**
 IMO-No. **9234135**
 Propulsion **Motor Ship**



Classification

Hull 100 A5 E with freeboard 5.035 m
 IW SOLAS-II-2, Reg. 19 C2P57
 Container Ship
 Machinery MC E AUT

Anchor Equipment according GL-Rules

Anchor Equipment No. / Numeral **141 / up 3040 to 3210**
 Bower Chain Grade **GL-K3**
 3 Anchors, Weight each **9300 kg**
 Anchor Chain Length **660.00 m**

Note for Anchor Equipment **For high holding power anchors and for special anchor equipment see our Construction Rules.**

Tonnage

Tonnage Type **Convention'69**
 Length overall **207.40 m**
 Registered Length **196.75 m**
 Registered Breadth **29.80 m**
 Moulded Depth **16.40 m**
 Draught **11.400 m**
 Gross Tonnage **25305**
 Net Tonnage **12733**
 Deadweight **34133.000 t (acc. to Owners' statement, of tankers as calculated by GL)**
 Ballastwater **9969 m³**
 Fuel **2443 m³**

Hull & Cargo

Shipbuilder / Place **Aker MTW Werft GmbH / Wismar**
 Yard Number **013**
 Keellaying **2002-02-19**
 Launching **2002-07-13**
 Completion **2002-09**
 Number of Watertight Bulkhead(s) **7**
 Number of Continuous Deck(s) **2**

Double Bottom Type	Double bottom, continuous from peak to peak bulkhead
Longitudinal Frames	Built on longitudinal frames
Material	Shipbuilding steel (higher tensile)
Largest Hatch	Length = 12.64 m / Breadth = 25.35 m

Capacities - according to Owners' statements

Number of 20ft Containers	2470
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Special Arrangements

Loading Instrument	Plan Task Ltd. - Taskmaster
1 Transvers thruster KAWASAKI	1100 kW, forward

Lifting Device(s)

2 Cranes, each	6 t
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One Elevator(s)

Type	Service lift
Manufacturer	Lutz Aufzüge GmbH
Year of Manufacture	2001
Drive	Chain wheel
Height	6.00 m
Bearing Capacity	75 kg
Number of Accesses	2

Machinery

Total Power	21560 kW
Transmission	Main propulsion acts directly on the propellershaft
Starter Type	Compressed air direct

One Main Engine(s)

Year of Manufacture	2001
Manufacturer	Wärtsilä Italia S.p.A.
Model	7 RTA 72 U-B
Type	Diesel engine, two stroke single acting
Power	21560 kW
Main Engine Rated Speed	99 min ⁻¹
7 Cylinder, Diameter / Stroke	720 mm / 2500 mm

Propeller(s) / Speed

1 Propeller(s), Type	Solid propeller (keyless), aft
Ship's Speed	21.00 kn

Electric Installation(s)

1 Plant	440/ 220 V with 5640 kVA
1 Plant	440 V with 220 kVA

Generators

3 Main generators, each	1880 kVA
1 Emergency generator	220 kVA

One Boiler(s)

Manufacturer	GeKaKonus Energie- und Umwelttechnik GmbH & Co. KG Niederlassung Dresden
Year of Manufacture	2001
Boiler Type	Steam boiler, oil fired / exh.gas heated
Max. allow. working pressure	9 bar
Heating Surface	36.5 m ²
Heating Surface	310.0 m ²

Compressed Air Receiver(s)

2 Receivers, each	9000 liters, 30 bar
1 Receiver	500 liters, 30 bar
1 Receiver	30 liters, 30 bar

Additionalals**Additional Data**

Anchor	1 bower anchor 6978 kg (high holding power anchor) 1 bower anchor 6983 kg (high holding power anchor) Chains : 660 m, diameter 76 mm K3 Upon agreement by the owner the spare anchor has been dispensed with.
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Hull

Load on weather deck hatch covers :
Permissible container stack load
Hatches Nos. 1 + 2
20' containers : 540 kN (55 t)
40' containers : 736 kN (75 t)
Hatches Nos. 3 - 10
20' containers : 589 kN (60 t)
40' containers : 883 kN (90 t)
45' containers : 883 kN (90 t)
Uniform load : 17,2 kN/m² (1,75 t/m²)
Weather deck hatch covers partly made from higher tensile with a minimum yield strength of $R_{eH} = 355 \text{ N/mm}^2$ according to the drawings to be kept on board
For detailed max. loading see also Container-Securing Manual and Trim & Stability Booklet.
Center of gravity see also Container-Stowage and Lashing Plan.
Hull partly made from higher tensile steel according to the drawings to be kept on board.
Rudderstock, rudderhorn and pintle made from higher tensile steel according to the drawings to be kept on board.

Hull Legend

E	Ice strengthening
IW	Equipped for in-water surveys
SOLAS-II-2,Reg.19	Dangerous Goods
C2P57	Subdivision, damage stability

Machinery Legend

AUT	Unattended machinery spaces
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Annual/Intermediate Survey Endorsements

1st annual survey endorsement

(Place of Survey/Date)



(Surveyor(s) to Germanischer Lloyd)

2nd annual survey endorsement / intermediate survey endorsement

(Place of Survey/Date)



(Surveyor(s) to Germanischer Lloyd)

3rd annual survey endorsement / intermediate survey endorsement

(Place of Survey/Date)



(Surveyor(s) to Germanischer Lloyd)

4th annual survey endorsement

(Place of Survey/Date)



(Surveyor(s) to Germanischer Lloyd)

Extension of Class Period

in accordance with the Rules for Classification and Construction of Germanischer Lloyd, and on the basis of the survey carried out, the validity of this certificate is extended until (max. 3 month):

Remark: Outstanding items see Survey Statement

No

(Place of Survey/Date)



(Surveyor(s) to Germanischer Lloyd)

Confirmation of Completion of Class Renewal Surveys

The Class Renewal Surveys have been completed, the issue of a new Certificate by Head Office of GL has been applied for, meanwhile the validity of this certificate is extended until

(Place of Survey/Date)



(Surveyor(s) to Germanischer Lloyd)

- IMPORTANT CLASS REQUIREMENTS -

- According to procedures agreed within IACS the class will automatically be suspended
- by the due date, if surveys towards Class Renewal have not been completed or are not in progress
 - 3 months after their due date, if the Annual or Intermediate Surveys are not completed
 - by the assigned due date, if a Condition of Class is not dealt with

Any suspension of class will have to be reported to the vessel's competent Flag State Authority and the IACS Permanent Secretariat.