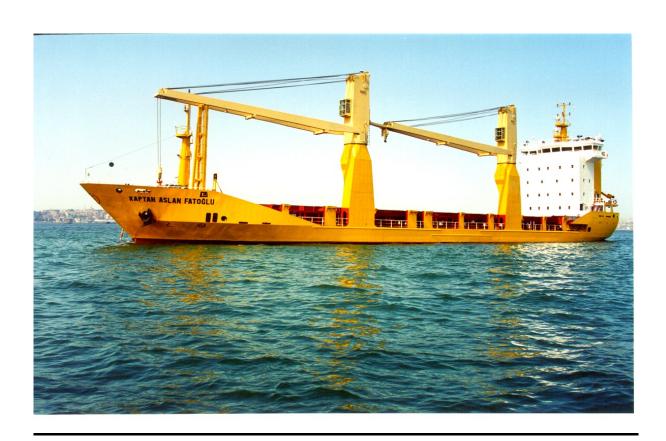
Newbuilding M/V 'CHRISTIAN D'

5.570 Dwt MULTIPURPOSE/ CONTAINER SHIP



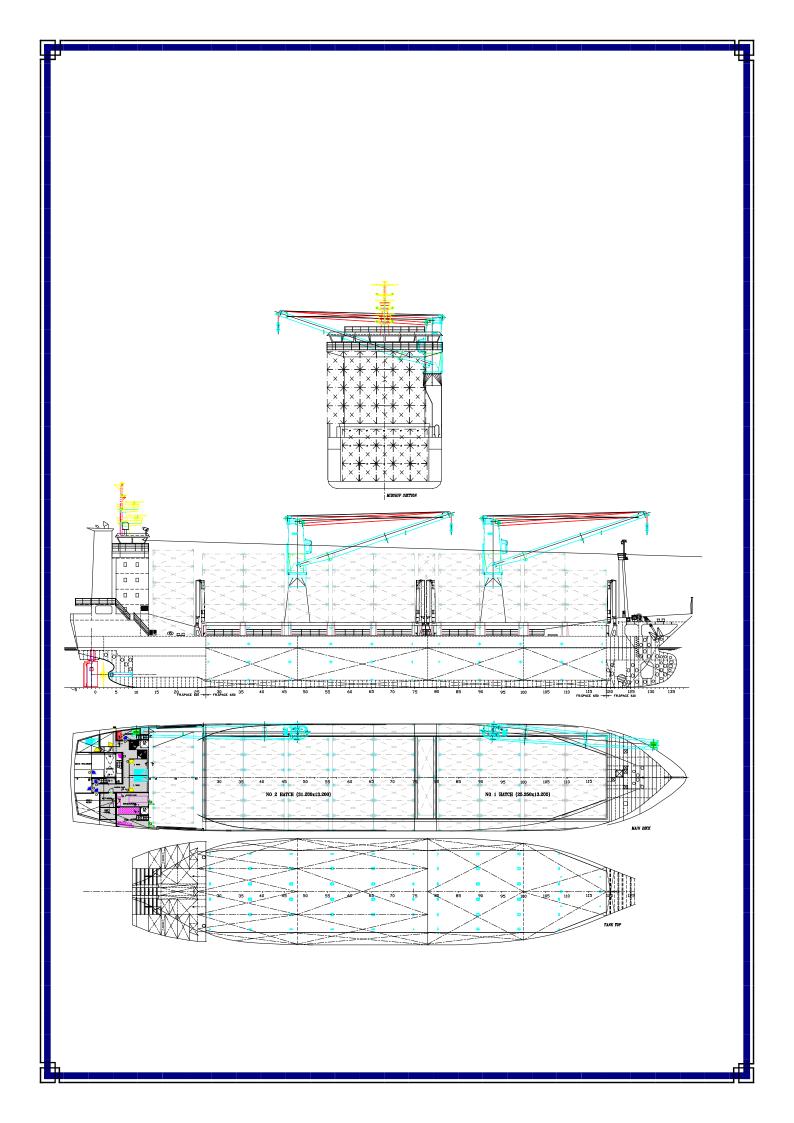


OZMARIN GEMİ PROJE & DANIŞMANLIK

Postahane Mah. Barbaros Hayrettin Cad. Ayazma Sitesi H Blok D : 1 81700 TUZLA İSTANBUL / TÜRKİYE

Tel: +(90 216) 3952556 Fax: +(90 216) 3954484 E-Mail: ozmarin@ozmarin.com Web: www.ozmarin.com

15.March 2006



1-M/V 'CHRISTIAN D' GERMANY Ex. M/V 'KAPTAN ASLAN FATOĞLU' TURKIYE (WİTH CRANE 5450 DWT/390 teu Container)

SHIPYARD :GISAN SHİPYARD / TUZLA/TURKIYE

HULL NO :028

OWNER :BD-Shipnavo GmbH & Co Reederi KG

CONT.DATE :01-03-2001 LAUNCHING DATE :28-07-2001 DELIVERY DATE :05-08-2001

PORT OF REGISTRY:

IMO No : 9237876

BV Section No :



<u>2-M/V 'GUNDEM 2' TURKIYE</u> (WİTHOUT CRANE 5570 DWT/404 teu Container)

SHIPYARD :GISAN SHİPYARD / TUZLA/ TURKIYE

HULL NO :031

OWNER :Gisan İnşaat Sanayi ve Tic.Ltd. Şti.

CONT.DATE :02-05-2002 LAUNCHING DATE :10-01-2004 DELIVERY DATE :12-05-2004

PORT OF REGISTRY: ISTANBUL-TURKIYE

IMO No : 9280122 BV Section No :03872 L



3-M/V 'HIKMET K' TURKIYE (WİTHOUT CRANE 5570 DWT/404 teu Container)

SHIPYARD :GISAN SHİPYARD / TUZLA/ TURKIYE

HULL NO :032

OWNER :İrem Denizcilik ve Tic.Ltd. Şti.

CONT.DATE :12-03-2002 LAUNCHING DATE :29-06-2003 DELIVERY DATE :02-01-2004

PORT OF REGISTRY :ISTANBUL-TURKIYE

IMO No : 9275854

BV Section No :



4-M/V 'MUSTAFA YAGCI' TURKIYE (WITHOUT CRANE 5570 DWT/404 teu Container)

SHIPYARD :YILMAZ SHİPYARD / Kdz.Eregli/ TURKIYE

HULL NO :021

OWNER :Yagcı Denizcilik ve Tic.Ltd. Şti.

CONT.DATE :06-12-2003 LAUNCHING DATE :28-11-2005 DELIVERY DATE :12-03-2006

PORT OF REGISTRY: ISTANBUL-TURKIYE

IMO No : 9314545 BV Section No : 04728 R



<u>5-M/V 'ATAKO' TURKIYE</u> (WİTHOUT CRANE 5570 DWT/404 teu Container)

SHIPYARD :TORGEM SHİPYARD / TUZLA/ TURKIYE

HULL NO :086

OWNER :Atako Uluslarararası Taş.Den. ve Tic.Ltd. Şti.

CONT.DATE :06-09-2004

LAUNCHING DATE : 2006 DELIVERY DATE : 2006

PORT OF REGISTRY: ISTANBUL-TURKIYE

IMO No : KR Section No :



6-M/V 'ALI AKAY' TURKIYE (WİTHOUT CRANE 5800 DWT/404 teu Container)

SHIPYARD :YILDIRIM SHİPYARD / TUZLA/ TURKIYE

HULL NO :107

OWNER :Akaylar Denizcilik Sanayi ve Tic. A. Ş.

CONT.DATE :16-12-2004

LAUNCHING DATE : 2006 DELIVERY DATE : 2006

PORT OF REGISTRY: ISTANBUL-TURKIYE

IMO No : 9358759 BV Section No :08075 E



PRINCIPAL PARTICULARS

MAIN DIMENSIONS	no:1	No:2,3,4,5	No:6 .
Lenght Overall	94.720 m.	94.720 m.	94.720 m.
Lenght Betwen Perp.	84.230 m.	84.643 m.	84.827 m.
Breadth (mld)	17.000 m.	17.000 m.	17.000 m.
Depth to Main deck (mld)	8.300 m.	8.300 m.	8.600 m.
Draught (desing)	6.549 m.	6.555 m.	6.800 m.
- · · · · · · · · · · · · · · · · · · ·			

no:1

No:2,3,4,5

No:6

Displacement	7.505 t.	7.565 t.	7.900 t.
Deatweight (at dsg. Draught)	5.408 t.	5.567 t.	5.800 t.
Light Ship	2.097 t.	1.999 t.	2.100 t.
Gross tonnage (abt)	3726 t.	3726 t.	t.
Net tonnage (abt)	1840 t.	1840 t.	t.
CAPACITY	no:1	No:2,3,4,5	No:6 .
Cargo Holds capacity	6.468 cbm.	6.654 cbm.	6.870 cbm.
Marine Diesel oil	64 cbm.	96 cbm	96 cbm
Heavy Fuel oil	424 cbm.	455 cbm.	455 cbm.
Fresh water	93 cbm.	155 cbm.	155 cbm.
Water Balast	1.861 cbm.	1.828 cbm.	1.828 cbm.
Lub.Oil Tanks	11 cbm	12 cbm	12 cbm.
Other Tanks	49 cbm.	58 cbm.	58 cbm.

MACHINERY PLANT

TONNAGE

Main engine M.A.K. 6M32 2880 Kw, 600 rpm.

Aux. Engine3x228 Kw. 3x380 V 50 HzEmergency generator1x102 Kw. 3x380 V 50 HzBoiler400 Kw, thermal fluid heaterBow thruster300 Kw, hydraulic driven CPP

Shaft Generator 550 Kw 380 V 50 Hz.

SPEED AND CONSUMPTION

Speed (95% mcr) 13.5 kts Laden

Fuel consumption 12.0 t./day Ifo 180 Cst–No MGO at sea (All in good weather

& sea condition) (up to beafourt F 2/2 and no advers current)

PORT CONSUMPTION

Idle 1.0 Tons MGO. (Crane working 2.0 Tons.)

CARGO AREA (HOLDS , HATCH COVERS & DECK)

• Cargo gear :2X40(32) MT,24(28) Mt.Side Cranes portside.

• Nr of hatches/Holds :- 1 box holds of 13,20x25.34/26.65

- 2 box holds of 13.20x31.20/32.50

• Hold capacity: 6654.27 m3 (Approx. 234.993. cbft Grain & 225.593 Bale)

-Hold No:1 2852.44 Grain /2738.34 m3 Bale -Hold No:2 3801.83 Grain /3649.76 m3 Bale

• **Hatchcovers**: Folding type -1 hatch two folding fore & Aft.side

-2 hatch two folding fore & Aft.side & one stacking covers

• Total Container Intake: Alvays subject to vessel'sstrength and stability permissible weights and/or stability / visibility,

CAPACITY	no:1	No:2,3,4,5	No:6 .
On hatchs/deck: Teus/Feus	257 /91(75)	275 /103(62)	275 /103(62)
In holds : Teus/Feus	126 /45(36)	129 /54(21)	129 /54(21)
Total : Teus/Feus	383 /136(111)	404 /157(83)	404 /157(83)

• Container stability:

About **TEU of 12 tons**, homogeneously loaded on 6.55m draft

About **222 TEU of 14 tons**, VCG %40,homogeneously loaded on 6.55m draft About **TEU of 14 tons**, VCG %50,homogeneously loaded on 6.55m draft

About TEU of 20 tons, homogeneously loaded on 6.55m draft

Please note that intakes are always subject to vessels, Inclining experi-

ment/stability/trim and permissible weights.

• Stack weight in holds: 20'/40' stack Max. 90/120 Mton-3 Tiers (2x9'6"&1x8'6")

• Stack weight on hatchs: 20'/40' stack Max. 28/35 Mton-4 Tiers

• Stack weight on e.r.deck: 20'/40' stack Max. 40/60 Mton-5 Tiers

• Tank top strength: 12 t/m2

• **Hatch covers strength** : 1.75 t/m2

• Cell guides : no

• Reefer plugs: 50 Total (380 volt-50 Hz) Fitted with reefer monitoring system.

• **Dangeraous cargo**: All Cargo Holds Equipped for Dangeraous cargo 6 Charge Per hour (empty hold)

• **Fittings**: The vessel is equipped with all necessary container fittings for the full capacity.

GENERAL

Type Of Vessel:Self sustained single deck, Dauble skinned, Box shaped container vessel. Isc containers of 20', 40' and length as well as 8', 8'6", 9'6" Height, Grain bulk cargo suitable for grat discharge.

The ship to be build in accordance to this outline specification and general arrangement drawing no. B 01 01.

The ship to be an double bottom and double sides. 2 cargo holds to be arranged.

The water balast to be carried in combined double bottom and wing tanks and in the fore peak.

Superstructure with deckhouse aft to be arranged for accommodation.

The deadweight to include fuel oil bunker, freshwater, crew and store and spare pats beyond the requirements of the Class. The deadweight is calculated in salt water with a specific gravity of 1.025 ton Per m³.

Class and regulation

The vessel to be build according to the regulations and under the survey of B.V.(No:1,2,3,4&6) & K.R.(No:5) with following notations:

Built to B.V. I +HULL GENERAL CARGO SHIP ,UNRESTRICTED NAVIGATION EQUIPPED FOR CARRIAGE OF CONTAINER strengthened for heavy cargoes, tank top strengthened for loading and unloading grab, certified container securing arrangements.

HULL STRUCTURE

Hull material to be of mild steel.

Metarial Protection

Balast tank : To be of Jotun's Balloxy HB Coated in thickness of

2x150 microns + cathodic profection by Jotun

F. water tank : To be of Jotun's Jotacote 412 coated in thickness of 2x200 microns.

TYPE OF COATING : Tin free and fit for ice class 1b for 60 months of drydock intervals.

EQUIPMENT FOR CARGO

Deck Cranes

2X40 MT ,24,5 Mt.Side Cranes portside. Electro hydraulic driven system (Only hull no:1)

2 SWL 1.5 tons outreach 3.5 m.

Electro hydrolic, self-acting-Life raft / rescue boat / provisions

SHIP INSTALLATION MACHINERY COMPONENTS

Main engine

1 x M.A.K. Diesel Engine Type 6M32C Four stroke 2880 Kw at 600rpm. Rotating clockwise With Centa flexible coupling.

Red.Gear & Popeller

1 x ZF W43000 NC PT05

Propeller

Propeller / Shaft / Stemtube CP propeller Medium skewed with 4 blades, Dia: 3800mm Rotating anti-Clockwise Propeller hub type VB in Ni-al-bronze

Rudder - steering gear

HATLAPA type R4L250-45-144 kNm. Four cylinder type.

Bow thruster

ROLLS-ROYCE Transverse thruster. Type 45 – TV, 300 kW, electrical motor driven.

Shaft Generator

1 x LOREY SOMER,LSA 491-M-4P PTO 550 kW at 1500 rpm

Bollers

WIESLOCH or AALBORG
1 x 400 Kw thermal fuild heater
MDO fired system
1 x 500 kW economiser (incl. Dump cooler)
Bot hare fully automated control system

Diesel generator

3 x 228 kW by DEMP (engines : D2866L from MAN; alternators ACM434E)

Emergency generator

1 x 102 kWe by DEMP (engine: D2866 E from Man: alternator; UCM274E)

SYSTEM FOR MACHINERY MAIN COMPONENTS

Piping material generally all system:

Tiping much golden, but by storm	
Pipes	Material :
Seawater cooling pipes	Galvanised steel
Freshwater cooling pipes	Galvanised steel
MDO in engine room	Steel
Fuel oil pipes	Steel
Lub oil pipes	Steel
Air, filling and sounding pipes	Galvanised steel
Bilge pipes	Galvanised steel
Ballast pipes	Galvanised steel
Fire pipes	Galvanised steel
Hydraulic pipes	Steel
Compressed air 30 bar	Seamless steel
Compressed air 7 bar	Steel

Fuel oil system

Fuel system consists of;

- 2 HFO and 1 MDO purifiers, by Alfa Laval
- booster module, by Alfa Laval
- 2 HFO and 1 DO transfer pumps, by Bombas Azcue
- day and settling tanks and sludge tank.

Lub oil system

Lub oil system consist of;

- 1 LO purifier, by Alfa Laval
- 1 LO transfer pump, by Bombas Azcue
- 1 LO pump for M/E, by Bombas Azcue

Cooling system

Cooling system consist of;

- 1 x M10 BFM (for M/E LT), 1 x M10 MFM (for M/E HT) and 1 x M10 BFM (for R/G) coolers
- 2xSea Cooling pump 2 x 135 CubM/h at 2.35 bars, 1750 rpm.
- HT FW cool.pump 1 x 90 CubM/hr at 4.0 bars, 2950 rpm.
- LT FW cool.pump 1 x 80 CubM/hr at 4.0 bars, 2950 rpm.
- Preheating circ.pump (type ----- 1 x --- CubM/hr at ---- bars, ----- rpm.
- 3xPump of Aux D/G SW cooling pump 3 x 10 CubM/h at 2 bars, 2950 rpm.

Coolers from Alfa Laval are of titatium plate type and the pumps from Bombas Azcue are of bronze impeller/casing.

Compressed air system

J.P.SAUER&JOHN

2 x WP 33L start air compressor

38.0 cbm/hr at 30 bars, 2x500 l. air bottles

Navigation equipment

The following navigation equipment to be delivered and installed;

- JRC Gyro / Autopilot
- 2 x ARPA, of which one will be of S band
- Speed log, Wing speed & direction, Echo sounder, DGPS
- Voyage data recorder, Weather fax receiver, Navtex, etc.

Anchor & chains

Anchor chains:495 mt. Ø50 mm Stud link chain cable, steel grade K2.

Anchors: 2 stockless bower anchors weight per anchor 3060 Kg.

Tow line: 200 mt. steel or fibre rope, min. Braking strength 603 Kn.

Mooring line :4x180 mt. steel or fibre rope ,min. Braking strength 234 Kn.

Windlasses

2 * 80 kN electo hydraulic windlasses equipped with warping drum / rope storing drum/ for chain ø50 mm K2

Mooring winches

2 * 80 kN electro hydraulic mooring winches equipped with warping drum / rope storing drum

EQUIPMENT FOR CREW

Accomadation located at aft aith the following rooms / compartements Wheelhouse at bridge deck (combine navigation / communication)

- (1) Wheelhouse module wet unit
- (11) Single cabin with module wet unit
- (1) Single cabin for hospital with module wet unit
- (1) Mess room at accommodation deck 1
- (1) Public module wet unit at accommodation deck 1
- (1) Galley with cocking apparatus at accommodation deck 1
- (1) Pantry with washing / servicing apparatus at main deck
- (2) Fridge rooms for meat / vegetable at poop deck
- (1) Dry provisions room with climate ventilation at accommodation deck

Life saving equipment

One rescue boat GEPA type. G-RB1, with CE marking

Other safety and emergency eqipment to be fitted according to SOLAS 74 Regulations.

Ventilation air condition and heating system

Heinen Hoppmann - The Netherlands

Compiying with Solas, ABS rules / regulations

Design condition......Summer -35 deg C, 70% relative humidity (RH)-(OUTSIDE)

-28 deg C, 50% RH-(INSIDE)

-Sea water temp. 32 deg C

.....-Winter -Minus 20 deg C-(OUTSIDE)

-20 degr D-(INSIDE)

-Sea water temp. 0 deg C

-Wind speed 16m/s

Sanitar system

HAMWORTY

1 X ST2A

Eqipped with vacuumerators.