

## SHIP'S PARTICULARS

Name of Vessel	M.V. REK GRACE
Nationality	PANAMA
Port of registry	PANAMA
Official Number	53598
IMO Number	9445203
Call Sign	3FYV6
Classification	BV
Class number	40916B
Kind of Ship	LOG/BULK CARRIER
Navigation Area	OCEAN GOING



<b>Communication</b>	
MMSI	373780000
P& I CLUB	WEST-ENGLAND
Inmarsat - C	<a href="mailto:437378013@inmc.eik.com">437378013@inmc.eik.com</a>
Inmarsat VSAT (Bridge)	+302311180438
AAIC	RAA :MR SERVICES,INC
Company Email address	<a href="mailto:Management@reknv.com">Management@reknv.com</a>
Ship Email address	<a href="mailto:master.rekgrace@rek-fleet.com">master.rekgrace@rek-fleet.com</a>

LOA	169.37m	LBP:	160.40m
Breadth(MLD)	27.20 m	Depth [Mid]	13.60m
Gross Tonnage	17,018	Net Tonnage	10,104

Date of Keel Laid	03 September 2007
Date of Launched	03 March 2008
Date of Delivery	09 April 2008
Last Dry Dock	12 MAY 2018

<b>Engine</b>	MAKITA MITSUI MAN B&W 6S 42MC
	MAX. RATING: (MCR: 5,850kW (7,953 ps x 129rpm)
	NORMAL RATING (MCO: 4,970kW (6,757 ps x 122rpm) - 85%

LADEN CONSUMPTION	ABT 12.00 knots ABT 16.5 IFO + ABT 0.2
	ABT 13.00 knots ABT 18.0 IFO + ABT 0.2
BALAST CONSUMPTION	ABT 12.00 knots ABT 15.5 IFO + ABT 0.2 LSMGO
	ABT 13.00 knots ABT 17.0 IFO + ABT 0.2 LSMGO

**ABOVE CONSUMPTIONS MAIN ENGINE CONSUMPTIONS**  
**CONSUMPTION IN PORT ( IN [ECA] PORT CONSUMPTIONS WILL BE IN LSMGO )**

1- DAILY CONSUMPTION BASIS GEARS WORKING : ABT 2.0 LSMGO MT/DAY  
 2- IDLE (ANCHORED/STANDBY) : ABT 1.5 LSMGO MT/DAY

**MAIN ENGINE START/STOP**

FUEL USED FOR PROPULSION : LSMGO 0.01% S max CST RMG 35  
 FUEL USED FOR GENERATING PLANT : LSMGO 0.01% S max CST RMG 35

**PROPELLER**

PITCH: 3831 mm  
 BLADE DIA : 5,250 mm

	M/E	AUX.1	AUX.2	AUX.3
Manufacturer and model	MAKITA MITSUI MAN B&W	Yanmar Co.,Ltd	Yanmar Co.,Ltd	Yanmar Co.,Ltd
	6S42MC(MK6)	6EY18AL	6EY18AL	6EY18AL
Rated Power (KW)	: 5850	500	500	500
Rated Speed (RPM)	: 129	900	900	900

<b>*CO2 FITTED IN HOLDS</b>						
<b>*LOGS FITTED WITH LASHING AS ON BOARD</b>						
<b>NO GRABS FITTED</b>						
<b>Max still water bending moments amid ship are :</b>						
Hogging 866.681KNm						
Sagging 785.457KNm						
Local Strength (MT/m <sup>2</sup> )	H-1	H-2	H-3	H-4	H-5	Allow. Designed cargo weight on deck
Tank Top Area [m <sup>2</sup> ]	280.2	547.5	547.5	547.5	358	Units area in m <sup>2</sup>
Tank Top	16.85	15.00	16.85	15.00	16.97	Units area in MT/ m <sup>2</sup>
Upper Deck side	4.10	4.10	4.10	4.10	4.10	Units area in MT/ m <sup>2</sup>
Cross Deck	3.30	3.30	3.30	3.30	3.30	Units area in MT/ m <sup>2</sup>
LOADLINE	MARK	Draft [m]	Displacement[MT]		Deadweight[MT]	Freeboard[mm]
TROPICAL F.WATER	TF	10.242	35,544		29,133	3,402
FRESH WATER	F	10.038	34,751		28,340	3,606
TROPICAL	T	10.023	35,560		29,149	3,621
SUMMER	S	9.819	34,753		28,342	3,825
WINTER	W	9.615	33,947		27,536	4,029
<b>TIMBER</b>						
TROPICAL F.WATER	LTF	10.553	36,760		30,349	3,091
FRESH WATER	LF	10.343	35,939		29,528	3,301
TROPICAL	LT	10.328	36,777		30,366	3,316
SUMMER	LS	10.118	35,939		29,528	3,526
WINTER	LW	9.615	33,947		27,536	3,807
<b>*CARGO HOLD (GRAIN) EQUIVALENT USED : 1m<sup>3</sup> m 35.315 CF</b>						
NAME		POSITION	CAPACITY		CG	KG
		FRAME	m <sup>3</sup>	CP	m	m
NO. 1 CARGO HOLD	HOLD	165-194	5011.95	116997.01	-60.97	7.59
	HATCH WAY	168-185	298.00	10523.87	-59.50	14.37
	SUM		5309.95	187520.88	-60.89	7.97
NO. 2 CARGO HOLD	HOLD	131-165	7680.24	211222.68	-34.02	7.30
	HATCH WAY	136-160	463.90	16382.63	-36.70	14.36
	SUM		8144.14	227605.31	-37.00	7.70
NO. 3 CARGO HOLD	HOLD	97-131	7731.58	213040.75	-9.89	7.31
	HATCH WAY	102-125	463.90	16382.63	-9.50	14.36
	SUM		8195.48	229423.38	-9.87	7.71
NO. 4 CARGO HOLD	HOLD	63-97	7755.83	213894.14	17.35	7.29
	HATCH WAY	68-92	463.90	16382.63	17.70	14.36
	SUM		8219.73	230276.77	17.37	7.69
NO. 5 CARGO HOLD	HOLD	30-63	6970.35	246157.91	43.72	7.64
	HATCH WAY	34-58	463.90	16382.63	44.90	14.36
	SUM		7434.25	262540.54	43.79	8.06
TOTAL			37303.55	1317374.88		
<b>*CARGO HOLD (BALE) EQUIVALENT USED : 1m<sup>3</sup> m 35.315 CF</b>						
NAME		POSITION	CAPACITY		CG	KG
		FRAME	m <sup>3</sup>	CP	m	m
NO. 1 CARGO HOLD	HOLD	165-194	4717.38	166594.27	-61.08	7.51
	HATCH WAY	168-185	298.00	10523.87	-59.50	14.37
	SUM		5015.38	177118.14	-60.99	7.92
NO. 2 CARGO HOLD	HOLD	131-165	7363.25	260033.17	-37.01	7.24
	HATCH WAY	136-160	463.90	16382.63	-36.70	14.36
	SUM		7827.15	276415.80	-36.99	7.66
NO. 3 CARGO HOLD	HOLD	97-131	7414.48	261842.36	-9.88	7.23
	HATCH WAY	102-126	463.90	16382.63	-9.50	14.36
	SUM		7878.38	278224.99	-9.86	7.65
NO. 4 CARGO HOLD	HOLD	63-97	7414.48	261842.36	17.32	7.23
	HATCH WAY	68-92	463.90	16382.63	17.70	14.36
	SUM		7878.38	278224.99	17.34	7.65
NO. 5 CARGO HOLD	HOLD	30-63	6661.30	235243.81	43.85	7.60
	HATCH WAY	34-58	463.90	16382.63	44.90	14.36
	SUM		7125.20	251626.44	43.92	8.04
TOTAL			35724.49	1261610.36		

Draft (Summer)	9.819 [m]	T.P.C.	39.60 T					
Light Ship Weight	6,411 [MT]	F.W.A.	219					
Height (Keel to Mast)	39.500 [m]							
Hatch Cover	Nitchitsu Co., Ltd. / Iwaki Tec Ordinary Folding Type Steel hatch covers x 5 sets							
Cargo Hatch	No.1 13.60 x 16.0	No. 2 19.20 x 17.60m	No. 3 19.20 x 17.60m					
			No. 4 19.20 x 17.60m					
			No. 5 19.20 x 17.60m					
<b>TANK TOP STRENGTH:</b>								
	a) On upper deck :	4.1 mt / m2						
	b) On cross deck :	3.3 mt / m2						
	c) On hatch cover :	3.3 mt / m2						
<b>HATCH SIZES:</b>								
	No 1 = 13.60m X 16.00m							
	No 2 - 5 = 19.20m X 17.60m							
GRAIN&BALE CAPACITIES	37, 304 m3 GRAIN , 35, 724 m3 BALE							
Allowable designed cargo weight (t/m <sup>2</sup> ) of uniform loading on decks.								
<b>DECK NAME</b>	<b>HOLD NUMBER</b>							
	1	2	3	4	5			
INNER BOTTOM	16.85	15.00	16.85	15.00	16.97			
Allowable designed cargo weight (t/m <sup>2</sup> )of local strength for inner bottom plate and longi tudinal member.								
<b>DECK NAME</b>	<b>HOLD NUMBER</b>							
	1	2	3	4	5			
INNER BOTTOM	20.00	20.00	20.00	20.00	20.00			
<b>Hatch cover</b>								
Allowable designed cargo weight (t/m <sup>2</sup> ) of uniform loading on hatch cover								
<b>DECK NAME</b>	<b>HOLD NUMBER</b>							
	1	2	3	4	5			
	3.30	3.30	3.30	3.30	3.30			
<b>Cargoes other than buan bulk cargoes</b>								
Allowable designed steel coil weight (t) in * marked cargo holds								
<b>DECK NAME</b>	<b>STEEL COIL WEIGHT</b>	<b>TIER</b>	<b>NO. OF DUNNAGE</b>	<b>HOLD NUMBER</b>				
				1	2	3	4	5
INNER BOTTOM	15	2	3	*	*	*	*	*
Allowable designed steel fork lift weight (t) in * marked cargo holds								
<b>DECK NAME</b>	<b>TOTAL WEIGHT</b>	<b>WHEEL LOADS PER AXLE (t)</b>	<b>HOLD NUMBER</b>					
			1	2	3	4	5	
INNER BOTTOM	35	15.4	*	*	*	*	*	*

(PORT USE ONLY)

**NORMAL BALLAST CONDITION**

MAX AIR DRAFT = 34.07m

WATER LINE TO HATCH COMMING = 11.00m

AT DRAFT      aft =05.43m      middle =04.48m      forward =03.46m

**FULL BALLAST CONDITION**

MAX AIR DRAFT = 34.15m

WATER LINE TO HATCH COMMING = 10.70m

AT DRAFT      aft =05.36m      middle =04.81m      forward =04.22m

**Heavy BALLAST CONDITION (BALLASTING HOLD No3)**

MAX AIR DRAFT = 32.20m

WATER LINE TO HATCH COMMING = 08.70m

AT DRAFT      aft =7.30m      middle =06.56m      forward =06.00m

**Allowable mass:**allowable designed T (t / m<sup>2</sup>) in cargo holds

COND. NAME	HOLD NUMBER				
	1	2	3	4	5
Homo Load	0.773	0.773	0.773	0.773	0.778
2Port Load	0.773	-	0.773	-	0.778
	-	0.773	-	0.773	-
Ore Alte, Load SF=11.96CF/LT	1.381	-	1.382	-	1.391
GRAIN LOAD SF=42CF/LT	0.905	0.905	0.304	0.905	0.911
Heavy Ballast Load	-	-	1.086	-	-
Special Load 15 t/m <sup>2</sup>	1.230	0.197	1.230	0.195	1.230
	0.384	1.230	0.409	1.230	0.440
Design	1.381	1.230	1.382	1.230	1.391

Maximum ballasting/deballasting rate : 250 m<sup>3</sup> /h X 25 m (T.H.)....2sets

Cargo gear      Mitsubishi - 4sets x Electro-hydraulic type single deck crane, SWL 30.5t

Bilge &amp; Ballast Pump      Maker      TAIK

Speed Trial (Max)      16.199 kts

Sea Speed : 13.0 kts

**WINDLASS (INDEPENDENT TYPE) W1,W2****2 SETS / SHIP**

Drum name	Chain drum	Hawser drum	Warping drum
Drum quantity	1	2	1
Working Load	209kn {21.3t.f.}		
Rated capacity	182kn { 18.5tf } x9m /min	98.1kn {10tf} x 15m/min (1st layer)	98.1 kn {10tf }
Chain or rope	Ø 70G2 k. Shackle	Ø 65mm x 200m (6 layers)	Ø 65mm

**company address**

Mangement-operation      Alexandria Office 2 El-Mahrouky st, - 6th floor, Kom dekka, Alexandria, Egypt

Technical Managers      Damietta Office West Area of Damietta Port, Plot No: 03/40, Damietta Egypt, IMO NO: 5998511

Name of Master : \_\_\_\_\_