



MV “Dina Star” Multi Function Offshore Support/ Platform Supply Vessel



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MV “ DINA STAR”

MT 6015- Multi Function Offshore Support/Platform Supply Vessel



Owners

Dina Offshore AS, N-5953 Fønnes, Norway

Built

2013 by Kleven Maritime, Norway. Yard # 357

Classification

DNV +1A1, Offshore Service Vessel, + Supply, E0, SF, Dynpos AUTR, Clean Design, Comf-V(3)C(3),DK+, HL(2.5), Naut OSV(A), ICE B, LFL*, OILREC, SPS, HELDK-SH

Dimensions

LOA	93,80 m
Breadth (moulded)	20,00 m
Depth (to shelter deck)	10.85 m
Depth (to main deck)	8,00 m
Draft (max)	6,54 m
GRT	4826
NRT	1853
Deadweight	4742 t
Displacement	8755 t

Machinery

Main Engines	4 x CAT 3516-2350kW 1200-1800rpm 1 x CAT C32-969 kW 1200-1800rpm Total 10369 kW- 14102 bhp
Generators	4 x ABB 2350 kW, 1 x ABB 969kW, 1000 V DC out
Emergency Generator	1 x 340 kW-400 V-50Hz
Bow Thrusters	2 x Tunnel 925 kW-CPP 1 x Azimuth 880 kW-FP
Azimuth Propellers	Azipull 120, 2x2200 kW, Ø 3000 mm, FP
Water Maker	Reversed Osmosis 2 x 15 m3 /day
Environmental Features:	Ballast water treatment System, Exhaust Gas Cleaning by Catalytic Converter. ABB DC Grid Power Distribution for Energy Optimisation.

Deck Machinery

Capstans	2 x 10 t
Tugger Winches	2 x 15 t
Mooring Winches-aft	2 x 10 t
Anchor windlass	2 x 10 t
Cargo Securing Winches	6 x 3,6 t
Deck Crane STB boom	1x3 t@16m, knuckle
Deck Crane PS	1x2 t@24m, telescope

Cargo Capacities

Deck Area (free)	51x15,85m (808m ²)
Deck strength	10 t/m ² (stern to fr.58) 5 t/m ² (fwd of fr.58)
Fuel Oil*	3337 m ³
Potable Water	1005 m ³
Drill/ballast Water	2563 m ³
Liquid Mud	2234 m ³ /SG 2,5
Brine	2234 m ³ /SG 2,5
Methanol/Special Products	407 m ³ / SG 1,4
Dry Bulk	342 m ³ / 12078 Cu.ft.
ORO	2298 m ³
Power outlets on deck	24 x 450 VAC- 60 Hz
Agitators, hydraulic	fitted in 12 tanks. Tank cleaning machines fitted in Mud, Slop and Brine tanks. Prepared for installation of Water Re-cycling Unit (ATC Lite)

Discharge Rates

Fuel	2 x 0-150m ³ /hr @ 90 m
Pot Water	2 x 0-150m ³ /hr @ 90 m
Drill Water	2 x 0-150m ³ /hr @ 90 m
MUD	4 x 0-100 m ³ /hr @ 90 m
Brine	3 x 0-100 m ³ /hr @ 90 m
Methanol	2 x 0-75 m ³ /h @ 90 m
Special Products	2 x 0-75 m ³ /h @ 90 m
Dry Bulk	2 x 29,5 m ³ /min @ 6 bar
ORO	6 x 100 m ³ /h @ 90 m 4 x 75 m ³ /h @ 90 m

Flow meters fitted on Fuel, Water and Methanol lines. Pot. Water tanks fitted with sampling points and fittings for chlorination.

Bulk Connections

Location:	
Fuel oil	Aft STB/PS, mid STB
Pot water	Aft STB/PS, mid STB
Drill water	Aft STB/PS, mid STB
Dry bulk	Aft STB/PS, mid STB
Liquid Mud	Aft STB/PS, mid STB
Brine	Aft STB/PS, mid STB
Methanol/Spec.prod	Aft STB/PS
Couplings:	
Fuel, Slop, Methanol,	
Special Products	4" Avery Hardoll
Water, MUD, Brine,	4" Weco
Dry Bulk	5" Best
ORO	6" Weco (NOFO 2009)

Speed & Consumption *

Max speed	15,1 knots/ 21,5t
Econ speed	11 knots/ 8,7t
DP-operations	6,5 – 10,9t
St.by. Offshore	4 t
Port/harbour	0,7t

*Consumption of MGO/24 hours in Sea-state 2. Fuel to comply with ISO fuel standard 8217:2010 DMA, max Sulphur 0.1 %

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Navigation Equipment

Joystick	Rolls Royce
DP	Rolls Royce Icon- DP2
References	MiniRadaScan
	CyScan
	MRU (3)
	DGPS (2)
	Wind Sensor (2)
	HiPap 500
ERN	99,99,99,99
Radar (ARPA)	1 x 10cm. 1 x 3cm
Sat.Navigator	Fitted
Navtex	Fitted
Echo Sounder	1
Gyro	3
Autopilot	1
Doppler log	1
VDR	1
Electronic Charts	2 x ECDIS fitted
AIS	Fitted

Communication Equipment

GMDSS	Sea Area 3
SSB Radio	1
Radio Terminals	2 x VHF/DSC
UHF	2
UHF handsets	4 off
VHF handsets	3 off
VHF	2 x Duplex
	2 x Simplex
Inmarsat Fleet 77	1
Sat C Station	2
VSat	2

Windmill Support

Boatlanding	STB side
Deck Crane STB boom	1x3 t@16m,knuckle
Client Offices	4
Helideck	20,9m- MTOW 12,8t

Offshore Crane

Hydramarine	HMC 3568-Knuckle Boom
	Active Heave Compensated
Main Winch Capacity:	150 t @10m
Hook travel length:	3000 meters
Auxiliary Winch Capacity:	20 t @36m
Hook travel length:	2000 meters
Tugger winches	2 x 4 t
Power consumption	4 x 550 kW
Winterized	

Lifesaving and Contingency Support

FRC/MOB	Alusafe 770,dual diesel
LSA	73 persons
Internal fire fighting	Water Mist system
	Foam for Methanol

Accommodation

Total POB with SPS Class	60
-Single Cabins	22
-Double Cabins	21 (42bunks)
Gymnasium	Fitted
Hospital	Fitted
Dayrooms	2
Mess-room	1
Conference Room	1
Helicopter lounge	1
Offices	2

All cabins with separate WC/Shower, fully air-conditioned

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Tankplan

Tankplan MV Dina Star													
Tank	Position	Volume 100 %	Drillwater/ Ballast	Cargo Pot Water	Fuel Oil	Brine	MUD	Methanol	Special Products	ORO	Cement	Barya / Bentonite	Others
1 FOREPEAK FW	139-138	221,4		221,4									
2 PS WB	129-136	44,8	44,8										
2 DB WB	129-137	69,1	70,6										
2 SB WB	129-136	23,0	23,6										
3 PS FW	113-123	35,0		35									
3 DB/PS FW	113-123	176,0		176									
3 DB/SB FW	113-123	176,0		176									
3 SB FW	113-123	47,9		47,9									
4 PS WB	95-113	100,7	103,2										
4 DB/PS WB	95-113	35,3	36,2										
4 DB/CL WB	95-113	101,3	103,8										
4 DB/SB WB	95-113	37,0	37,9										
4 SB WB	95-113	101,3	103,8										
5 PS WB	83-95	41,9	42,9										
5 DB/PS WB	83-95	44,8	45,9										
5 DB/CL WB BILGE WATER	83-95	53,7	54,0										
5 DB/SB WB	83-95	44,8	45,9										
5 SB WB	83-95	41,9	42,9										
5a D.O. OVERFLOW	96-97	21,7			19,5								
6 PS WB	70-83	43,0	44,1										
6 DB/PS WB	70-83	53,5	54,6										
6 DB/CL WB	70-83	48,5	49,7										
6 DB/SB WB	70-83	53,5	54,6										
6 SB WB	70-83	43,0	44,1										
7 PS WB	88-70	39,7	40,7										
7 DB/PS WB	88-70	49,4	50,6										
7 DB/CL WB	88-70	45,3	46,4										
7 DB/SB WB	88-70	49,4	50,6										
7 SB WB	88-70	39,7	40,7										
8 PS WB	37-58	67,9	69,6										
8 DB/PS WB	37-58	70,0	71,8										
8 DB/CL WB	37-58	109,0	111,7										
8 DB/SB WB	37-58	68,0	69,7										
8 SB WB	37-58	67,9	69,6										
9 PS WB	28-37	24,5	25,1										
9 DB/PS WB	28-37	29,3	30,0										
9 DB/CL WB	28-37	58,8	60,3										
9 DB/SB WB	28-37	29,3	30,0										
9 SB WB	28-37	24,5	25,1										
10 CD/WB	22-28	222,2	227,8										
11 CD/WB	16-22	224,3	229,3										
12 PS FW	3-16	63,9		63,9									
12 CL/PS WB	3-16	58,3	59,8										
12 CL/SB WB	3-16	58,5	60,0										
12 SB FW	3-16	69,7		69,7									
13 PS FW	STERNA -3	107,4		107,4									
13 SB FW	STERNA -3	107,4		107,4									
14 UREA	126-139	48,6											48,6
17 PS F.O	89-95	115,4			103,9								
17 SB F.O	89-95	115,4			103,9								
18 PS F.O	83-89	120,4			105,4								
18 SB F.O	83-89	120,4			105,4								
19 PS MUD/BRINE/F.O./ORO	7+83	201,5			181,4	503,8	503,8		181,4				
19 SB MUD/BRINE/F.O./ORO	7+83	201,5			181,4	503,8	503,8		181,4				
20 PS MUD/BRINE/F.O./ORO	697+	175,5			158,0	438,8	438,8		158,0				
20 SB MUD/BRINE/F.O./ORO	697+	175,5			158,0	438,8	438,8		158,0				
21 PS MUD/BRINE/F.O./ORO	88-66	171,2			154,1	428,0	428,0		154,1				
21 SB MUD/BRINE/F.O./ORO	88-66	171,2			154,1	428,0	428,0		154,1				
22 PS F.O	80-66	117,4			104,7								
22 SB F.O	80-66	115,4			103,9								
23 PS MUD/BRINE/F.O./ORO	43-60	140,2			126,2	330,5	330,5		126,2				
23 SB MUD/BRINE/F.O./ORO	43-60	140,2			126,2	330,5	330,5		126,2				
24 PS MUD/BRINE/F.O./ORO	37+43	111,7			100,5	279,3	279,3		100,5				
24 SB MUD/BRINE/F.O./ORO	37+43	111,7			100,5	279,3	279,3		100,5				
25 PS MUD/BRINE/F.O./ORO	28-37	145,7			131,1	364,3	364,3		131,1				
25 SB MUD/BRINE/F.O./ORO	28-37	145,7			131,1	364,3	364,3		131,1				
25 CL F.O	28-37	256,3			230,7								
26 PS CEMBAR/BEN/MUD	48-54	57,7			144,3	144,3				138,5	138,5		
26 SB CEMBAR/BEN/MUD	48-54	57,7			144,3	144,3				138,5	138,5		
27 PS CEMBAR/BEN/MUD	43+48	54,4			136,0	136,0				130,6	130,6		
27 SB CEMBAR/BEN/MUD	43+48	54,4			136,0	136,0				130,6	130,6		
28 PS CEMBAR/BEN/MUD	37+43	58,9			147,3	147,3				141,4	141,4		
28 SB CEMBAR/BEN/MUD	37+43	58,9			147,3	147,3				141,4	141,4		
29 MUD / SLOP	95-100	29,8											29,8
30 PS METH / SPEC / ORO	22-26,7	99,6			83,6			79,7	139,4	85,6			
30 SB METH / SPEC / ORO	22-26,7	99,6			83,6			79,7	139,4	85,6			
31 PS METH / SPEC / ORO	16,3-22	103,8			83,4			83,0	145,3	83,4			
31 SB METH / SPEC / ORO	16,3-22	103,8			83,4			83,0	145,3	83,4			
34 PS D.O DAY TK_3	107-109	4,9			4,4								
35 PS D.O DAY TK_2	103-107	12,5			11,3								
36 PS D.O. SETTLING TK	100-103	11,2			10,1								
39 SB D.O. DAY TK_1	103-107	12,5			11,3								
40 SB D.O. SETTLING TK	100-103	11,2			10,1								
44 PS WB	32-56	43,8	44,9										
44 SB WB	32-56	43,8	44,9										
46 D.O. EMERG. DAY TK	111-114	3,6			3,2								
47 Ball Reduction Tank WB	109-113	139,6	143,1										
48 PS HOT WATER TK	95-100	14,4											14,4
49 SKEG WB	18-28	18,6	19,1										
Total Water c		7339	2827	1005	3003	4590	4590	325	570	2089	821	821	
Total Volume m3			2583	1005	3337	4638	4638	407	407	2295	342	342	92,8
					Total Volume bbls	11548	11548		Total Volume Cwt	12078	12078		

Disclaimer:

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