

SUPRA TIDE



SPARK TIDE as shown, SUPRA TIDE similar

PX 105

Vessel Characteristics

Length, Overall:	291.7 ft	88.9 m
Beam:	62.3 ft	19 m
Depth:	26.3 ft	8 m
Maximum Draft:	21.8 ft	6.7 m
Light Draft:	11 ft	3.4 m
Minimum Height:	93.5 ft	28.5 m
Freeboard:	4.6 ft	1.4 m
Displacement:	7,530 lt	7,650 mt
Deadweight:	4,480 lt	4,560 mt
Clear Deck Space:	209 x 53 ft	64 x 16 m
Clear Deck Area:	11,000 ft ²	1,020 m ²
Deck Strength FWD:	1,020 lb/ft ²	5 t/m ²
Deck Strength AFT:	2,050 lb/ft ²	10 t/m ²
Class Notations:	DNV: +1A1, Fire fighter(I), Offshore service vessel, Clean(Design), COMF(V-3), DK(+), DYNPOS(AU-TR), E0, HL(2.8), Ice(C), NAUT(OSV(A)), OILREC, SF	

Capacities

Deck Cargo:	2,790 lt	2,830 t
Fuel Oil:	252,000 gal	950 m ³
Potable Water:	34,500 gal	130 m ³
Fresh Water:	119,000 gal	450 m ³
Drill/Ballast Water:	579,000 gal	2,190 m ³
Bulk Tanks (5 tanks):	11,300 ft ³	320 m ³
Liquid Mud (2.8 SG*):	5,480 bbl	870 m ³
<small>*Max Structural Specific Gravity</small>		
Methanol:	920 bbl	150 m ³
Base Oil:	1,420 bbl	230 m ³
Brine:	2,300 bbl	360 m ³
Fire Fighting Foam:	1,320 gal	5 m ³

TIDEWATER

Find out more

tdw.com

Pg.2 Further Specifications

Pg.4 Capacity Table

Pg.3 General Arrangement

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NOTICE: The data contained herein is provided for convenience of reference to allow users to determine the suitability of the Company's equipment. The data may vary from the current condition of equipment which can only be determined by physical inspection. Company has exercised due diligence to insure that the data contained herein is reasonably accurate. However, Company does not warrant the accuracy or completeness of the data. In no event shall Company be liable for any damages whatsoever arising out of the use or inability to use the data contained herein.



Machinery

Diesel Electric Vessel			
<i>Propulsive/Total HP:</i>	6,700 / 8,730		
Z-Drives:	Yes		
Propellers (2):	AZP 100RRM AZIPULL, 2500KW		
Primary Generators (4):	1,550 kw	690 v	60 hz
<i>Driven by:</i>	CAT 3512-C		
Emergency Generators (1):	230 kw	440 v	60 hz
<i>Driven by:</i>	CAT C9		
Bow Thruster (2):	TT2200 DPN TT CP		
<i>Driven by:</i>	880KW ELECTRIC MOTORS		
Total Thrust:	29.5 st	26.8 mt	

Deck Equipment

Anchors (2):	3540 KG SPEK
Anchor Chain:	260 m of 46 mm chain per side
Windlass:	10T MG-HAM/GDDG-46U3
Crane (1):	2 t @ 13 m
Capstans (2):	10 t ODIM MC E 80/18-36
Tugger (2):	10 t MacGregor MG-HUW-10UR/UL

Accommodations

No. of Berths:	26
Cabins:	14x1-man, 4x2-man & 1x4-man
Certified to Carry:	26
Galley seating:	20
Hospital:	Yes

Registration

Flag: ISLE OF MAN	Home Port: DOUGLAS
Hull Number: 2023	IMO N°: 9656668
Year Built: 2014	Call Sign: MSQL9
Builder:	Zhejiang Shipbuilding Co., Ltd.
Tonnage (ITC):	4007 GT / 1533 NT

Performance*

Fuel Consumption Vs Speed		
<i>Maximum:</i>	31 m ³ /day (340 gph) @ 15 knots	
<i>Cruising:</i>	15.6 m ³ /day (170 gph) @ 12 knots	
<i>Economical:</i>	10.4 m ³ /day (110 gph) @ 10 knots	
<i>Standby:</i>	2.4 m ³ /day (26.4 gph) @ 0 knots	
Range @ 12 Knots:	17,500 nm	
Transfer Rates		
<i>Fuel Oil:</i>	1100 gpm @ 300 ft	250 m ³ /h @ 92 m
<i>Fresh Water:</i>	1,100 gpm @ 300 ft	250 m ³ /h @ 92 m
<i>Drill/Ballast Water:</i>	1,100 gpm @ 300 ft	250 m ³ /h @ 92 m
<i>Bulk:</i>	37.7 cfm @ 190 ft	64.1 m ³ /h @ 57 m
<i>Liquid Mud:</i>	440 gpm @ 800 ft	100 m ³ /h @ 240 m
<i>Base Oil:</i>	660 gpm @ 300 ft	150 m ³ /h @ 92 m
<i>Brine:</i>	440 gpm @ 800 ft	100 m ³ /h @ 240 m
<i>Methanol:</i>	440 gpm @ 230 ft	100 m ³ /h @ 71 m

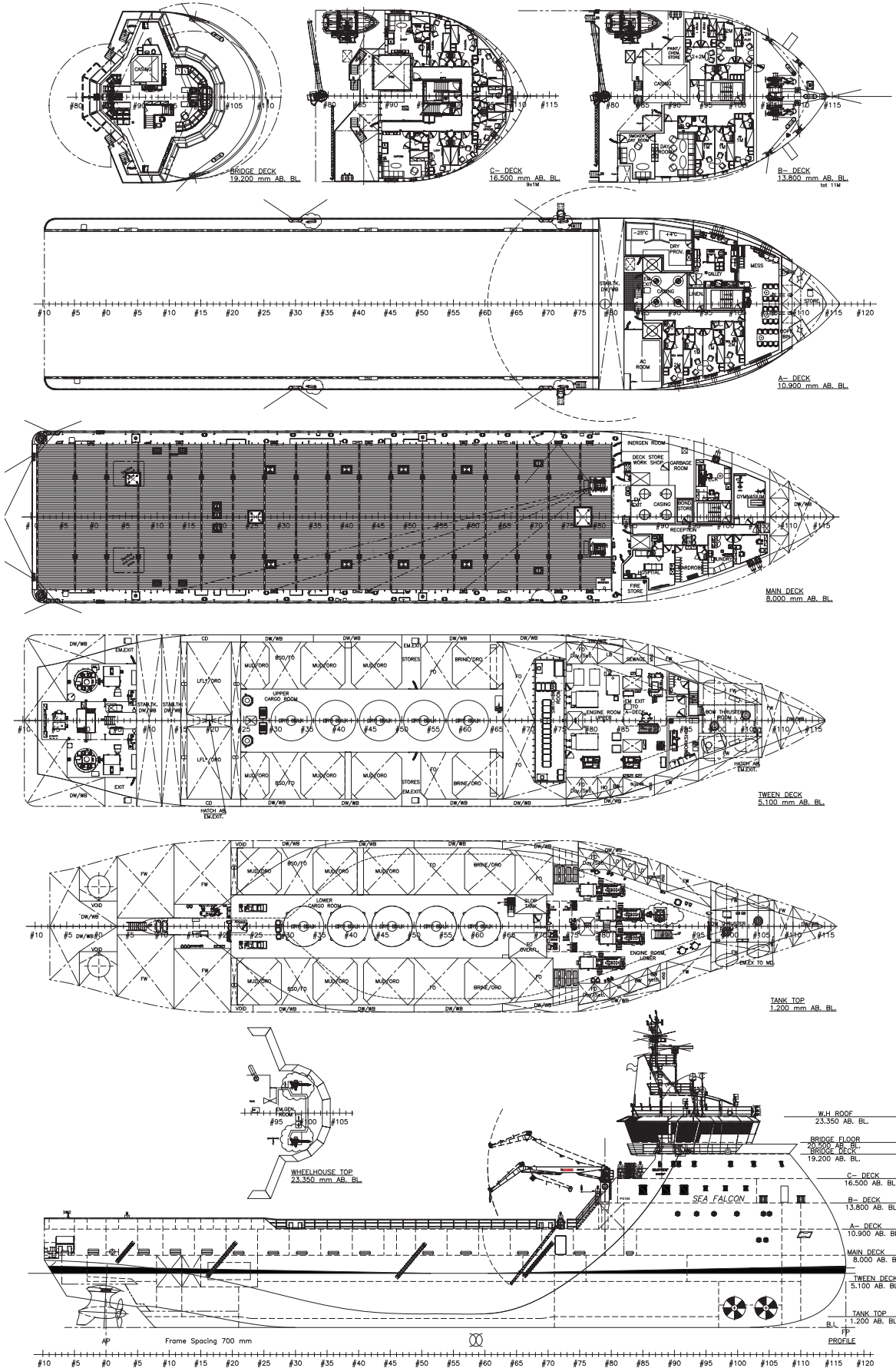
Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Cyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	3 x VHF; 1 x SSB
Sat Com:	2x INMARSAT-C

Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
<i>Ref. Systems:</i>	3 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Boat:	6-Man MATRIX 450 MOB
Gas Detection:	Yes
Reefer Sockets:	12x 230V 16A
Misc:	ORO Capacity - 1382.4 m ³ ; MSD; Eye Wash Station

*Approximate values assuming Ideal Conditions





Tank	Contents	Volume m ³	Base Oil	Fuel Oil	Dry Bulk	DW/WB	Potable Water	Fresh Water	Brine	Liquid Mud	Methanol	Lube Oil	Foam	Oil Disp.
FOREPEAK TK	DW/WB	117.2				117.2								
WB CENTER TK DB	DW/WB	41.5				41.5								
WB TK 2 DB PS	DW/WB	46.1				46.1								
WB TK 2 DB SB	DW/WB	47.3				47.3								
WB TK 3 DB PS	DW/WB	58.2				58.2								
WB TK 3 DB SB	DW/WB	58.2				58.2								
WB TK 4 DB PS	DW/WB	100.8				100.8								
WB TK 4 DB SB	DW/WB	100.8				100.8								
WB TK 5 DB PS	DW/WB	106.5				106.5								
WB TK 5 DB SB	DW/WB	106.5				106.5								
WB TK 6 DB PS	DW/WB	101.5				101.5								
WB TK 6 DB SB	DW/WB	101.5				101.5								
WB WING TK 3 PS	DW/WB	46.5				46.5								
WB WING TK 3 SB	DW/WB	59.0				59.0								
WB WING TK 4 PS	DW/WB	43.6				43.6								
WB WING TK 4 SB	DW/WB	43.6				43.6								
WB WING TK 5 PS	DW/WB	43.2				43.2								
WB WING TK 5 SB	DW/WB	43.2				43.2								
WB WING TK 6 PS	DW/WB	48.4				48.4								
WB WING TK 6 SB	DW/WB	48.4				48.4								
WB WING TK 7 PS	DW/WB	30.7				30.7								
WB WING TK 7 SB	DW/WB	30.7				30.7								
WB WING TK 10 PS	DW/WB	152.8				152.8								
WB WING TK 10 SB	DW/WB	152.8				152.8								
ROLL RED TK 1	DW/WB	134.5				134.5								
ROLL RED TK 2	DW/WB	177.4				177.4								
ROLL RED TK 3	DW/WB	149.7				149.7								
FW TK 1 C	FW	78.8						78.8						
FW WING TK 1 PS	Ship's FW	65.3					65.3							
FW WING TK 1 SB	Ship's FW	65.3					65.3							
FW WING TK 2 PS	FW	67.4						67.4						
FW WING TK 2 SB	FW	67.4						67.4						
FW WING TK 8 PS	FW	68.1						68.1						
FW WING TK 8 SB	FW	68.1						68.1						
FW WING TK 9 PS	FW	50.6						50.6						
FW WING TK 9 SB	FW	50.6						50.6						
FO TK 1 PS	FO	199.3		199.3										
FO TK 1 SB	FO	199.3		199.3										
FO TK 2 PS	FO	164.7		164.7										
FO TK 2 SB	FO	164.7		164.7										
FO SETTLING 1	FO	16.2		16.2										
FO SETTLING 2	FO	16.2		16.2										
FO SERVICE TK 1	FO	19.1		19.1										
FO SERVICE TK 2	FO	19.1		19.1										
FO DRAIN TK	FO	6.8		6.8										
FO OVERFLOW	FO	45.4		45.4										
BASE OIL TK PS	FO/BO	112.8	112.8	112.8										
BASE OIL TK SB	FO/BO	112.8	112.8	112.8										
BRINE TK 1 PS	BRI/ORO	182.5							182.5					
BRINE TK 1 SB	BRI/ORO	182.5							182.5					
LFL TK PS	LFL/ORO	73.0									73.0			
LFL TK SB	LFL/ORO	73.0									73.0			
MUD TK 1 PS	LM/ORO	186.8								186.8				
MUD TK 1 SB	LM/ORO	186.8								186.8				
MUD TK 2 PS	LM/ORO	153.6								153.6				
MUD TK 2 SB	LM/ORO	153.6								153.6				
MUD TK 3 PS	LM/ORO	95.3								95.3				
MUD TK 3 SB	LM/ORO	95.3								95.3				
CEM TK 201	DRY BULK	64.1			64.1									
CEM TK 202	DRY BULK	64.1			64.1									
CEM TK 203	DRY BULK	64.1			64.1									
CEM TK 204	DRY BULK	64.1			64.1									
CEM TK 205	DRY BULK	64.1			64.1									
LO STORE ME	LO	13.8										13.8		
LO STORE AZI	LO	4.5										4.5		
LO STORE THR	LO	4.9										4.9		
LO STORE SPARE	LO	5.4										5.4		
FOAM TK	FOAM	5.0											5.0	
Total Volume [m ³]			225.6	1,076.5	320.4	2,190.5	130.6	451.1	365.0	871.4	146.0	28.6	5.0	0.0
Spec Sheet Total Volume [m ³]			225.6	953.6	320.4	2,190.5	130.6	451.1	365.0	871.4	146.0	28.6	5.0	0.0

*Capacities shown are for lead vessel. Actual capacities may vary slightly.

*Capacities shown in **RED** are excluded from the total volume.

*Capacities shown in **BLUE** are included in another Tank's Capacity.

*Capacities shown in **GREEN** are counted for multiple Tank Capacities.



KONGSBERG

DP Capability Plot

DESS - ZJ 2019-2026

Case number : 1
 Case description : Optimum use of all thrusters
 Thrusters active : T1-T4
 Rudders active :

Version : StatCap v. 2.9.0
 Input file reference : Foot_4263.scp
 Last modified : 2012-02-14 13.41

Length overall : 88.8 m
 Length between perpendiculars : 82.0 m
 Breadth : 19.0 m
 Draught : 6.0 m
 Displacement : 7500.0 t (Cb = 0.78)
 Longitudinal radius of inertia : 20.5 m (= 0.25 * Lpp)
 Pos. of origin ahead of Lpp/2 (Xo) : 0.0 m
 Wind load coefficients : Calculated (Blendermann)
 Current load coefficients : Calculated (Strip-theory)
 Wave-drift load coefficients : Database (Scaled by Breadth/Length)

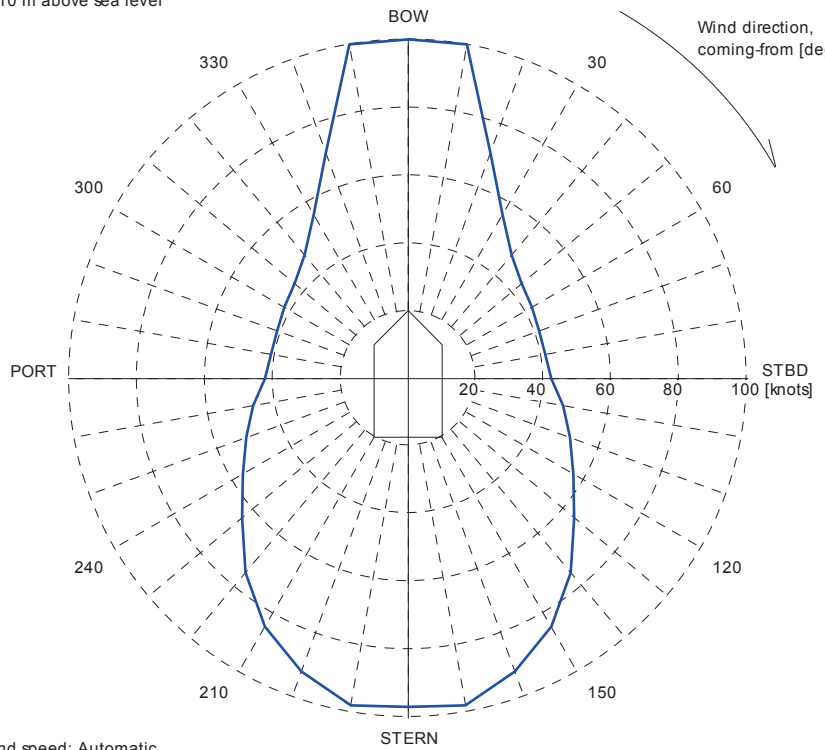
Tidal current direction offset : 0.0 deg
 Wave direction offset : 0.0 deg
 Wave spectrum type : JONSWAP (gamma = 3.30)
 Wind spectrum type : NPD
 Current - wave-drift interaction : OFF
 Load dynamics allowance : 1.0 * STD of thrust demand
 Additional surge force : 0.0 tf
 Additional sway force : 0.0 tf
 Additional yawing moment : 0.0 tf.m
 Additional force direction : Fixed
 Density of salt water : 1026.0 kg/m³
 Density of air : 1.226 kg/m³ (15 °C)

Power limitations : ON
 Thrust loss calculation : ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	32.2	0.0	13.2	-13.2	100	880	
2	TUNNEL	28.7	0.0	13.2	-13.2	100	880	
3	AZIMUTH	-41.0	-4.3	44.2	-27.2	100	2500	
4	AZIMUTH	-41.0	4.3	44.2	-27.2	100	2500	

VARIABLE WIND AND WAVES
 Limiting 1 minute mean wind speed in knots
 at 10 m above sea level

ERN = 99.
 ERN are subject to DNV approval



Wind speed: Automatic
 Significant wave height: DNV (ERN)
 Mean zero up-crossing period: DNV (ERN)

Rotating tidal current: 1.46 knots
 Rotating wind induced current: 0.000*Uwi knots