

# SPRINGER TIDE



SPARK TIDE as shown, SPRINGER TIDE similar

## PX 105 PSV

### 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	4,550 mt
Clear Deck Space:	209 x 53 ft	64 x 16 m
Clear Deck Area:	11,000 ft <sup>2</sup>	1,020 m <sup>2</sup>
Deck Strength FWD:	1,020 lb/ft <sup>2</sup>	5 t/m <sup>2</sup>
Deck Strength AFT:	2,050 lb/ft <sup>2</sup>	10 t/m <sup>2</sup>
Class Notations:	DNV: +1A1, Offshore service vessel, Clean, COM-F(V-3), DK(+), DYNPOS(AUTR), EO, HL(2.8), Ice(C), OILREC, SF	

### Capacities

Deck Cargo:	2,800 lt	2,850 t
Fuel Oil:	251,000 gal	950 m <sup>3</sup>
Potable Water:	35,300 gal	130 m <sup>3</sup>
Fresh Water:	119,000 gal	450 m <sup>3</sup>
Drill/Ballast Water:	579,000 gal	2,190 m <sup>3</sup>
Bulk Tanks (5 tanks):	11,300 ft <sup>3</sup>	320 m <sup>3</sup>
Liquid Mud (2.8 SG*):	5,470 bbl	870 m <sup>3</sup>
*Max Structural Specific Gravity		
Methanol:	920 bbl	150 m <sup>3</sup>
Base Oil:	1,420 bbl	230 m <sup>3</sup>
Brine:	2,320 bbl	370 m <sup>3</sup>
Fire Fighting Foam:	1,450 gal	5.5 m <sup>3</sup>

## TIDEWATER

Find out more

[tdw.com](https://tdw.com)

Pg.2 Further Specifications  
Pg.3 General Arrangement

Pg.4 Capacity Table  
Pg.5 DP Capability Plot

**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.

LAST UPDATE: 10/29/2023



Machinery

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

Deck Equipment

Anchors (2):	3540 KG SPECK
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 MG-HVC-1040D
Tugger (2):	10 t MG-HUW-10UR/UL

Accommodations

No. of Berths:	26
Cabins:	14x1-man & 6x2-man
Certified to Carry:	26
Galley seating:	20
Hospital:	Yes

Registration

Flag: NORWAY	Home Port: SKUDENESHAVN
Hull Number: 2022	IMO N <sup>o</sup> : 9656656
Year Built: 2014	Call Sign: LAFT8
Builder:	Zhejiang Shipbuilding Co., Ltd.
Tonnage (ITC):	4007 GT1533 NT

Performance\*

Fuel Consumption Vs Speed		
Maximum:	31 m³/day (340 gph) @ 15 knots	
Cruising:	15.6 m³/day (170 gph) @ 12 knots	
Economical:	10.4 m³/day (110 gph) @ 10 knots	
Standby:	2.4 m³/day (26.4 gph) @ 0 knots	
Range @ 12 Knots:	17,500 nm	
Transfer Rates		
Fuel Oil:	1100 gpm @ 300 ft	250 m³/h @ 92 m
Fresh Water:	1,100 gpm @ 300 ft	250 m³/h @ 92 m
Drill/Ballast Water:	1,100 gpm @ 300 ft	250 m³/h @ 92 m
Bulk:	37.7 cfm @ 190 ft	64.1 m³/h @ 57 m
Liquid Mud:	440 gpm @ 800 ft	100 m³/h @ 240 m
Base Oil:	660 gpm @ 300 ft	150 m³/h @ 92 m
Brine:	440 gpm @ 800 ft	100 m³/h @ 240 m
Methanol:	440 gpm @ 230 ft	100 m³/h @ 71 m

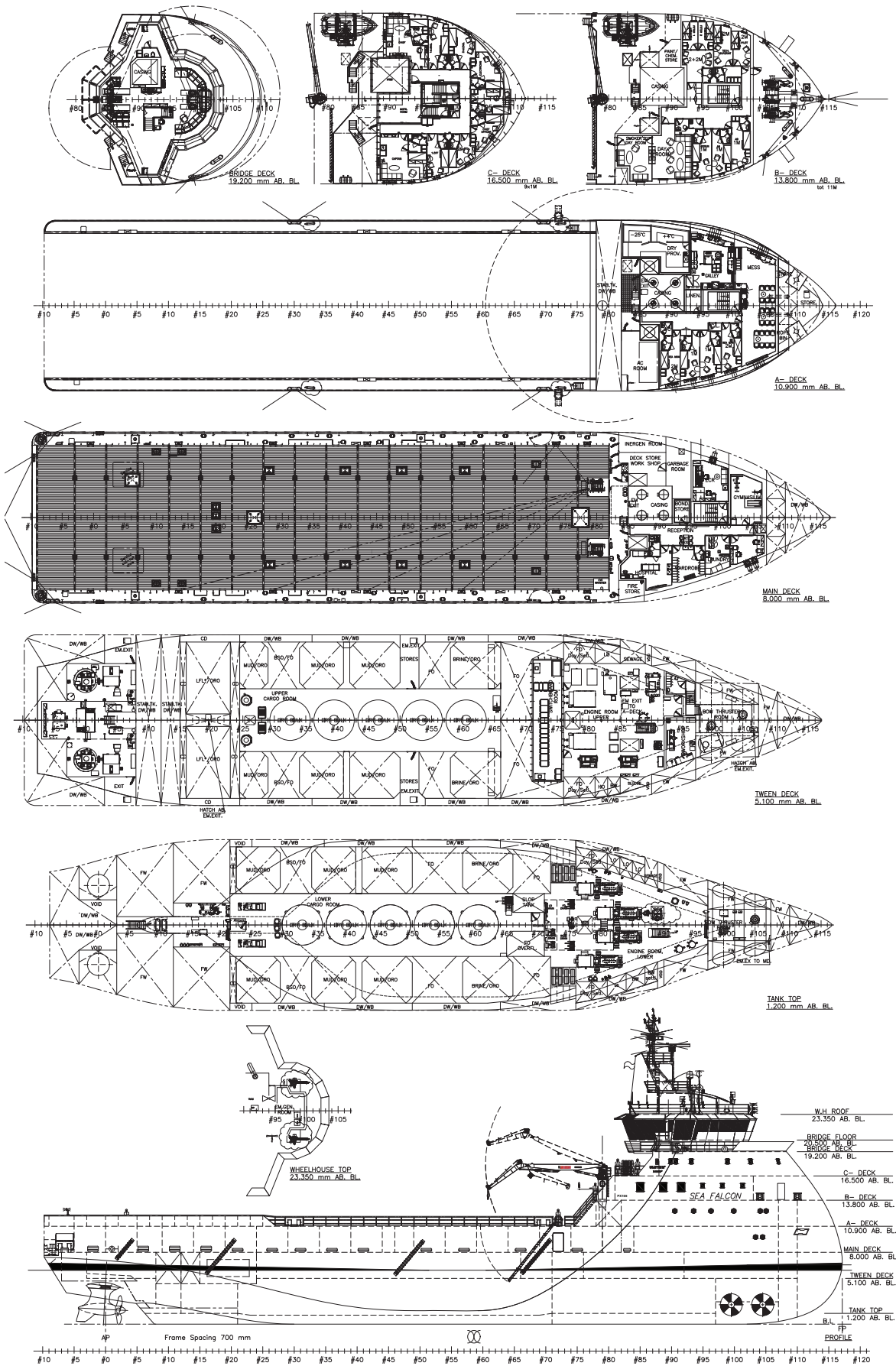
Nav/Comms Equipment

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

Special Equipment

Dynamic Positioning:	DP-2
Ref. Systems:	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 - 1385.8 m³; MSD; Eye Wash Station

\*Approximate values assuming Ideal Conditions



# SPRINGER TIDE

## Capacity Table



Tank	Contents	Volume m <sup>3</sup>	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	46.3				46.3								
WB WING TK 3 SB	DW/WB	58.9				58.9								
WB WING TK 4 PS	DW/WB	44.3				44.3								
WB WING TK 4 SB	DW/WB	44.3				44.3								
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	48.5				48.5								
WB WING TK 6 SB	DW/WB	48.5				48.5								
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	66.9					66.9							
FW WING TK 1 SB	Ship's FW	66.9					66.9							
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	198.1		198.1										
FO TK 1 SB	FO	198.1		198.1										
FO TK 2 PS	FO	164.8		164.8										
FO TK 2 SB	FO	164.8		164.8										
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	112.9	112.9	112.9										
BASE OIL TK SB	FO/BO	112.9	112.9	112.9										
BRINE TK 1 PS	BRI/ORO	184.8							184.8					
BRINE TK 1 SB	BRI/ORO	184.8							184.8					
LFL TK PS	LFL/ORO	73.0									73.0			
LFL TK SB	LFL/ORO	73.0									73.0			
MUD TK 1 PS	LM/ORO	186.5								186.5				
MUD TK 1 SB	LM/ORO	186.5								186.5				
MUD TK 2 PS	LM/ORO	153.4								153.4				
MUD TK 2 SB	LM/ORO	153.4								153.4				
MUD TK 3 PS	LM/ORO	95.2								95.2				
MUD TK 3 SB	LM/ORO	95.2								95.2				
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 TANK	FOAM	5.5											5.5	
Total Volume [m <sup>3</sup> ]			225.8	1,074.5	320.4	2,191.7	133.8	451.1	369.6	870.2	146.0	28.6	5.5	0.0
Spec Sheet Total Volume [m <sup>3</sup> ]			225.8	951.6	320.4	2,191.7	133.8	451.1	369.6	870.2	146.0	28.6	5.5	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)

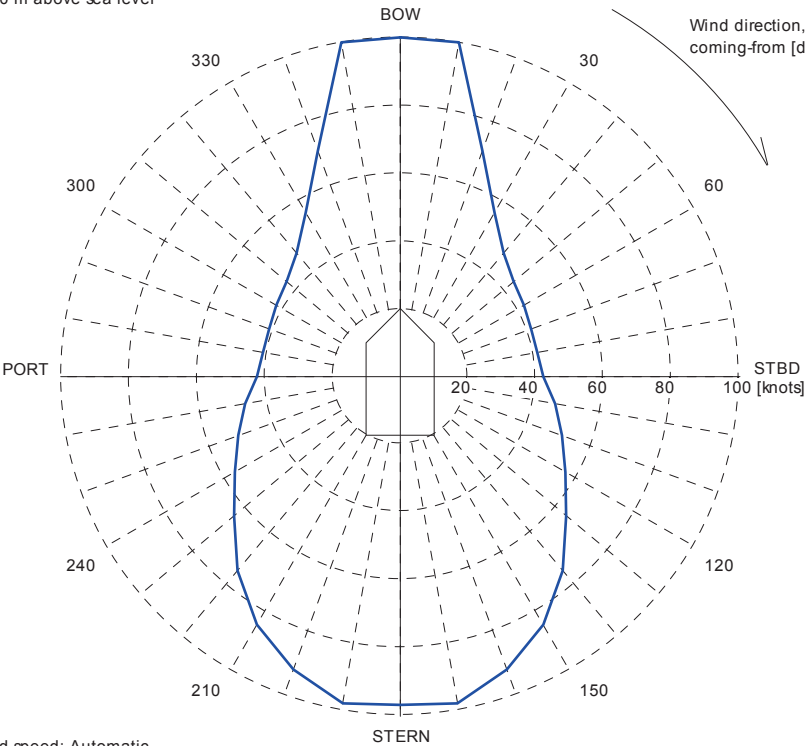
Tidal current direction offset : 0.0 deg  
Wave direction offset : 0.0 deg  
Wave spectrum type : JONSWAP (gamma = 3.30)  
Wind spectrum type : NPD  
Current - wave-drift interaction : OFF  
Load dynamics allowance : 1.0 \* STD of thrust demand  
Additional surge force : 0.0 tf  
Additional sway force : 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