



# STX PSV 09 CD PLATFORM SUPPLY VESSEL

#### **Vessel Characteristics**

Length, Overall:	284.8 ft 86.8 m							
Beam:	62.3 ft	19 m						
Depth:	26.3 ft	8 m						
Maximum Draft:	21.7 ft	6.6 m						
Light Draft:	9.8 ft	3 m						
Minimum Height:	86.3 ft	26.3 m						
Freeboard:	4.6 ft	1.4 m						
Displacement:	7,430 lt	7,550 mt						
Deadweight:	4,720 lt	4,790 mt						
Clear Deck Space:	205 x 52 ft	63 x 16 m						
Clear Deck Area:	10,800 ft <sup>2</sup> 1000 m <sup>2</sup>							
Deck Strength FWD:	1,020 lb/ft²	5 t/m²						
Deck Strength AFT:	2,050 lb/ft² 10 t/m²							
Class Notations:	DNV: +1A1, Clean(Design) F(C-3, V-3), DK(+), DYNP( LFL(*), NAUT(OSV(A)), SF	DS(AUTR), E0, HL(2.8),						

#### **Capacities**

2,660 lt	2,700 t
252,000 gal	950 m³
21,500 gal	81.4 m <sup>3</sup>
226,000 gal	860 m <sup>3</sup>
615,000 gal	2,330 m <sup>3</sup>
9,540 ft³	270 m <sup>3</sup>
6,030 bbl	960 m <sup>3</sup>
1,050 bbl	170 m³
1,550 bbl	250 m <sup>3</sup>
3,130 bbl	500 m <sup>3</sup>
530 gal	2 m <sup>3</sup>
	252,000 gal 21,500 gal 226,000 gal 615,000 gal 9,540 ft <sup>3</sup> 6,030 bbl 1,050 bbl 1,550 bbl

# **TIDEWATER**

#### Find out more

#### Pg.2 Further Specifications Pg.3 General Arrangement

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Pg.4 Capacity Table Pg.5 DP Capability Plot

# Further specifications



#### **Machinery**

Diesel Electric Vessel						
Propulsive/Total HP:		Ę	5,870 / 10,700			
Z-Drives:			Yes			
Propellers (2):		2X	2200KW CPP			
Primary Generators (4):	1,820 kw	690 v	60 hz			
Driven by:			CAT 3516B			
Secondary Generators (1):	420 kw	690 v	60 hz			
Driven by:			CAT C18			
Emergency Generators (1):	98 kw	690 v	60 hz			
Driven by:		PER	KINS 6TG2AM			
Bow Thruster (3):	2x RRM TT 2200 DPN FP, 1x ZF 6011 RT					
Driven by:	880KW ELECTRIC MOTORS					
Total Thrust:		44.2 st	40.1 mt			

#### **Deck Equipment**

Anchors (2):	3,540 KG SPEK TYPE
Anchor Chain:	260 m of 46 mm chain per side
Windlass:	2x ODIM 46K3 15.5T @ 15M/MIN
Crane (1):	5 t @ 10 m
Aux. Crane (1):	1 t @ 10 m
Capstans (2):	10 t ODIM 1005-10T-CAP
Tugger (2):	10 t HARAM ELEKTRO 4005-TUW-10T

#### **Accommodations**

No. of Berths:	26
Cabins:	10x1-man & 8x2-man
Certified to Carry:	26
Galley seating:	20
Hospital:	Yes

#### Registration

Flag: NORWAY	Home Port: SANDNES
Hull Number: 127	IMO N <sup>o</sup> : 9439462
Year Built: 2010	Call Sign: LNHS3
Builder:	STX Norway Offshore AS Søviknes
Tonnage (ITC):	3639 GT 1187 NT

#### **Performance\***

Fuel Consumption Vs Speed							
Maximum:	27 m³/day (300 gph) @ 14 knots						
Cruising:	14 m³,	/day (150 gph) @ 12.5 knots					
Economical:	12 r	m³/day (130 gph) @ 11 knots					
Standby:	1.6 r	m³/day (17.6 gph) @ 0 knots					
Range @ 12.5 Knots:		21,900 nm					
Transfer Rates							
Fuel Oil:	1,100 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:	26.5 cfm @ 200 ft	45 m³/h @ 61 m					
Liquid Mud:	330 gpm @ 800 ft	75 m³/h @ 240 m					
Base Oil:	440 gpm @ 250 ft	100 m³/h @ 76 m					
Brine:	330 gpm @ 700 ft	75 m³/h @ 210 m					
Methanol:	330 gpm @ 300 ft	75 m³/h @ 90 m					

#### **Nav/Comms Equipment**

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

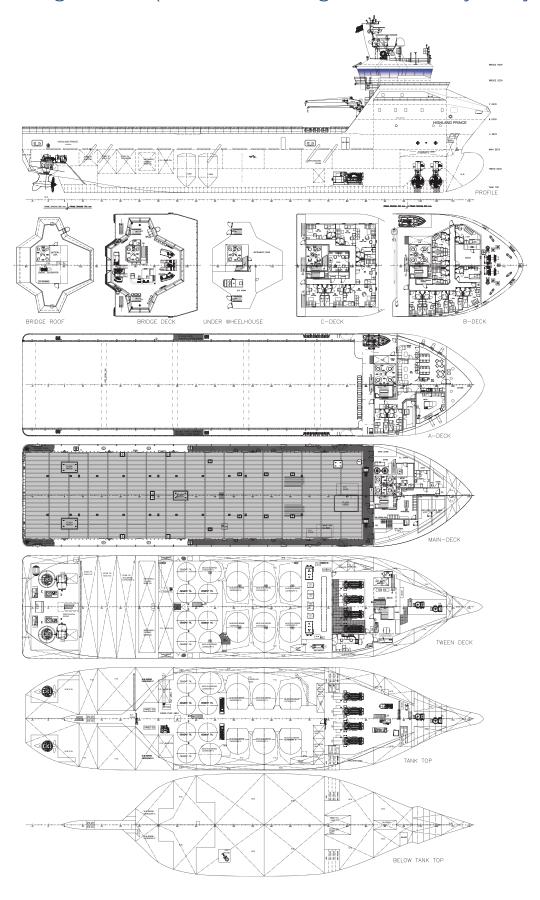
#### **Special Equipment**

Dynamic Positioning:	DP-2
Ref. Systems:	2 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 Midget 500 MKII
Reefer Sockets:	10x 220V 16A; 10x 440V 16A
Misc:	MSD 50 Persons; Eye Wash Station; SHOREPOWER CONNECTION: 2 x 350A; 1x BHS AIR DRIER

\*Approximate values assuming Ideal Conditions

# General Arrangement (Current configuration may vary.)





# Capacity Table



4 DR WE TK 3 DR DWWB 115.1	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.
S DR WE NYS 1PS	1 FOREPEAK TK	DW/WB	101.3				101.3				_				
8 WING TK 4 SB DWWB 143.3	4 DB WB TK 3 SB	DW/WB	115.1				115.1								
7 DB WING TK 4 PS	5 DB WB TK 3 PS	DW/WB	100.4				100.4								
8 DB TK 4 SB DWWB 51.2	6 WING TK 4 SB	DW/WB	87.9				87.9								
10 DB WING TK S SB DWWB 205.7   205.7	7 DB WING TK 4 PS	DW/WB	143.3				143.3								
11 DB WING TK S PS	8 DB TK 4 SB	DW/WB	51.2				51.2								
12 DB WINTO TK 6 SB DWWB 196.8   196.8	10 DB WING TK 5 SB	DW/WB	205.7				205.7								
13 DB WING TK 6 PS  DWWBB 201-0  10 DB WING TK 9 SB  DWWBBBR 103-8  17 DB WING TK 9 PS  DWWBBBR 103-8  17 DB WING TK 9 PS  DWWBBR 103-8  10 DB WING TK 9 PS  DWWBBR 103-8  10 DB WING TK 9 PS  DWWBBR 102-1  DWWBBR 102-1  DWWBBR 201-8  28 TAB 1  DWWBBR 201-8  28 TAB 2  DWWBBR 201-8  291-8  2	11 DB WING TK 5 PS	DW/WB	205.7				205.7								
19 DR WING TK S SB	12 DB WING TK 6 SB	DW/WB	196.8				196.8								
17 DE WING TK S PS  DWING TK S PS  DWING TK S PS  DWING TK S PS  28 CA CO METH TK  DWING BY  186.8  186.8  186.8  187.8  28 STAB 1  DWING WING TK S PS  DWING TK S PS  287.9  287.9  287.9  287.9  197.3	13 DB WING TK 6 PS	DW/WB	201.0				201.0								
24 CD METH TK DWWB 186.8 291.8	16 DB WING TK 9 SB	DW/WB/BR	103.8				103.8			103.8					
28 STAB 1 DWWBBR 291.8 291.8 281.8 291.8 287.8 28 STAB 2 DWWBBR 297.9 287.9 287.8 3 DWWBBR 297.3 197.3	17 DB WING TK 9 PS	DW/WB/BR	102.1				102.1			102.1					
28 STAB 2 DW/WBFW 197.3 197.3 197.3 197.3 197.3 22 AFT PEAK SB DW/WBFW 197.3 1	24 CD METH TK	DW/WB	186.8				186.8								
27 STAB 3 DW/WBFW 192.5 122.5 122.5 122.5 122.5 22 ART PEAK SB DW/WBFW 122.5 123.6 1	25 STAB 1	DW/WB/BR	291.8				291.8			291.8					
22 AFT PEAK PS DWWBFW 113.8 2 FW 2 SB Ship's FW 40.7 3 FW 2 PS Ship's FW 40.7 14 FW 7 SB FW 62.5 15 FW 70.4 15 FW 7 SB FW 62.5 15 FW 70.4 15 FW 7 SB FW 70.4 15 FW 7 SB FW 70.4 16 FW 7 SB FW 7 S3.1 17 FW 7 SB FW 7 S3.1 18 FW 7 S8 FW 7	26 STAB 2	DW/WB/FW	287.9				287.9		287.9						
23 AFT PEAK PS  DWWBIPW  113.8  3 FW 2 PS  Ship's FW 40.7  15 FW 7 PS  FW 62.5  15 FW 7 PS  FW 62.5  15 FW 7 PS  FW 70.4  20 FW 11 PS  FW 70.4  20 FW 11 PS  FW 53.1  48 BASE OIL PS  FO 102.8  43 FO CARGO S B  FO 218.6  44 FO CARGO S B  FO 103.1  45 FO CARGO FP  FO 18.3  45 FO CARGO FP  FO 18.3  51 FO SERV 2  FO 18.8  15 FO 80.2  16 EAST VI 15 S  16 EAST VI 15 S  17 EAST VI 15 S  18 EAST VI 15 S	27 STAB 3	DW/WB/FW	197.3				197.3		197.3						
2 FW 2 SB Ship's FW 40.7	22 AFT PEAK SB	DW/WB/FW					122.5		122.5						
Ship's FW   40.7   40.7   40.7   40.7   41.5 FW 7 PS   FW   62.5   62.	23 AFT PEAK PS						113.8		113.8						
14 FW 7 SB	2 FW 2 SB														
15 FW 17 PS	3 FW 2 PS							40.7							
18 FW 10 SB	14 FW 7 SB														
19 FW 10 PS 19 FW 10 PS 19 FW 53.1 21 FW 11 PS 19 FW 53.1 21 FW 12 PS 21 FW 12 PS 21 PW 12 PS 22 PS 23 PW 12 PS 24 PS 25 PW 12 PS 26 PW 12 PS 26 PW 12 PS 27 PS 28 PW 12 PS 28 PW	15 FW 7 PS														
20 FW 11 SB															
24 FW 14 PS															
46 BASE OIL SB FOIBO 126.1 126.1 126.1 126.1 126.1 127 BASE OIL PS FOIBO 120.8															
47 BASE OIL PS	-								53.1						
42 FO CARGO 5 SB FO 142.5															
43 FO CARGO 5 PS FO 218.6 46 FO ARGO 6 SB FO 181.3 45 FO CARGO 7 PS FO 62.7 46 FO CARGO 6 PS FO 100.1 40 FO CARGO 6 PS FO 100.1 50 FO SERV 2 FO 13.2 13.2 71 FO SETTLING FO 8.5 8.5 76 EMGEN FOTK FO 2.0 8.5 76 EMGEN FOTK FO 2.0 2.0 48 FO OVERFLOW PS FO 43.3 28 MUD 1 SB LM 130.0 29 MUD 1 PS LM 130.0 30 MUD 2 SB LM 130.0 31 MUD 2 PS LM 130.0 31 MUD 2 PS LM 129.8 33 MUD 3 PS LM 129.8 33 MUD 3 PS LM 129.8 33 MUD 4 SB LM 89.5 35 MUD 4 PS LM 89.5 35 MUD 5 PS LM 89.5 35 MUD 6 PS LM 89.5 35 MUD 7 PS LM 89.5 35				120.8											
44 FO CARGO 6 SB FO 181.3															
45 FO CARGO 7 PS 49 FO CARGO 6 PS 40 FO 100.1 40 FO CARGO 6 PS 40 FO 100.1 41 100.1 50 FO SERV 2 50 FO 13.2 51 FO SERV 71 FO SETTLING FO 8.5 57 EMGEN FOTK FO 2.0 2.0 48 FO OVERFLOW PS 50 43.3 28 MUD 1 PS 1 LM 130.0 20 MUD 2 PS 1 LM 130.0 21 MUD 3 PS 1 LM 129.8 33 MUD 3 PS 1 LM 129.8 33 MUD 3 PS 1 LM 129.8 34 MUD 4 PS 1 LM 89.5 52 METH 8 52 METH 8 53.7 52 METH PS METH 83.7 53 METH PS METH 83.7 6 METH 83.7 6 METH 85.0 6 METH 45.0 6 METH 45															
49 FO CARGO 6 PS FO 100.1 50 FO SERV 2 FO 18.8 18.8 15 FO 13.2 71 FO SETTLING FO 8.5 8.5 75 EMGEN FOTK FO 2.0 48 FO OVERFLOW PS FO 43.3 28 MUD 1 SB LM 130.0 20 MUD 1 PS LM 130.0 30 MUD 2 PS LM 130.0 31 MUD 2 PS LM 129.8 33 MUD 3 RS LM 129.8 33 MUD 3 RS LM 129.8 34 MUD 4 FS LM 89.5 55 METH PS METH 83.7 52 METH PS METH 83.7 Cem TK 1 PS DRY BULK 45.0 Cem TK 2 PS DRY BULK 45.0 Cem TK 2 PS DRY BULK 45.0 Cem TK 3 PS DRY BULK 45.0 Cem TK															
50 FO SERV 2 FO 18.8 18.8 18.8 19.8 19.5 19.0 SERV 3 FO 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2															
51 FO SERV FO 13.2 13.2 13.2 71 FO SETTLING FO 8.5 8.5 8.5 72 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5															
71 FO SETTLING FO 8.5 FO 2.0 2.0 43.3 45 FO OVERFLOW PS FO 43.3 43.3 28 MUD 1 SB LM 130.0 29 MUD 1 PS LM 130.0 30 MUD 2 SB LM 130.0 31 MUD 2 PS LM 130.0 31 MUD 2 PS LM 130.0 31 MUD 2 PS LM 129.8 33 MUD 3 PS LM 129.8 33 MUD 3 PS LM 129.8 33 MUD 4 PS LM 89.5 52 METH BS METH 83.7 52 METH PS METH 83.7 52 METH PS METH 83.7 60m TK 1 PS DRY BULK 45.0 Cem TK 2 PS DRY BULK 45.0 Cem TK 2 PS DRY BULK 45.0 Cem TK 3 P															
76 EMGEN FOTK FO 2.0 43.3 43.3 43.3 1 130.0 1															
48 FO OVERFLOW PS  EMUL 1 SB  LM  LM  LM  LM  LM  LM  LM  LM  LM  L															
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29 MUD 1 PS LM 130.0 30 MUD 2 SB LM 130.0 31 MUD 2 PS LM 130.0 32 MUD 3 SB LM 129.8 33 MUD 3 PS LM 129.8 33 MUD 4 SB LM 89.5 35 MUD 4 PS LM 89.5 52 METH SB METH 83.7 Cem TK 1 PS DRY BULK 45.0 Cem TK 2 PS DRY BULK 45.0 Cem TK 2 PS DRY BULK 45.0 Cem TK 3 SB DRY BULK 45.0 Cem TK 3					43.3						420.0				
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34 MUD 4 SB															
35 MUD 4 PS  LM  89.5  52 METH SB  METH  83.7  Cem TK 1 PS  DRY BULK  45.0  Cem TK 2 PS  DRY BULK  45.0  Cem TK 3 PS  DRY BULK  45.0  Cem TK 3 SB  DRY BULK  A5.0  DRY															
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S3 METH PS  METH  B3.7  Cem TK 1 PS  DRY BULK  45.0  Cem TK 2 PS  DRY BULK  45.0  Cem TK 2 SB  DRY BULK  45.0  Cem TK 3 PS  DRY BULK  45.0  Cem TK 3 SB  DRY BULK  A S.0  D	52 METH SB											83.7			
Cem TK 1 PS  DRY BULK  45.0  45.0  Cem TK 2 PS  DRY BULK  45.0  Cem TK 2 SB  DRY BULK  45.0  Cem TK 3 PS  DRY BULK  45.0  DRY BULK  AND  BULK  BULK  AND  BULK	53 METH PS														
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61 LUBE OIL LO 13.2 13.2	Cem TK 3 PS	DRY BULK	45.0			45.0									
	Cem TK 3 SB	DRY BULK	45.0			45.0									
Total Volume [m³] 246.9 1,037.9 270.0 2,814.4 81.4 1,093.5 497.7 958.6 167.4 13.2 0.0 0	61 LUBE OIL	LO	13.2										13.2		
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Total Volume [m³] 246.9 1,037.9 270.0 2,814.4 81.4 1,093.5 497.7 958.6 167.4 13.2 0.0 (															
															0.0
Spec Sheet Total Volume [m³] 246.9 952.1 270.0 2,329.2 81.4 857.2 497.7 958.6 167.4 13.2 0.0 0  *Capacities shown are for lead vessel. Actual capacities may vary slightly.		•				270.0	2,329.2	81.4	857.2	497.7	958.6	167.4	13.2	0.0	0.0

<sup>\*</sup>Capacities shown are for lead vessel. Actual capacities may vary slightly

<sup>\*</sup>Capacities shown in RED are excluded from the total volume.

<sup>\*</sup>Capacities shown in **BLUE** are included in another Tank's Capacity.

<sup>\*</sup>Capacities shown in GREEN are counted for multiple Tank Capacities.

### DP Capability Plot



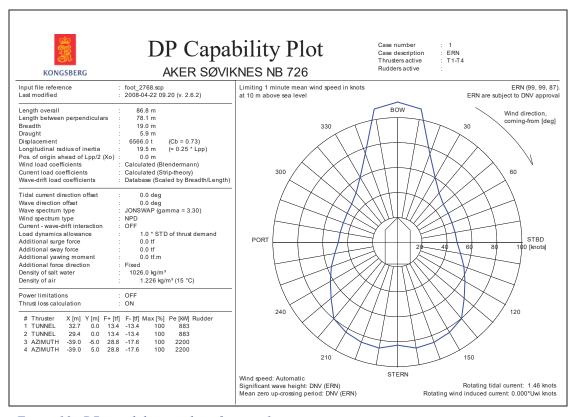


Figure 10: DP capability envelope for case 1.