

TROMS SIRIUS



PSV 09 L CD PLATFORM SUPPLY VESSEL

Vessel Characteristics

Length, Overall:	306.8 ft	93.5 m
Beam:	62.3 ft	19 m
Depth:	26.3 ft	8 m
Maximum Draft:	21.3 ft	6.5 m
Light Draft:	N/A ft	N/A m
Minimum Height:	88.6 ft	27 m
Freeboard:	4.9 ft	1.5 m
Displacement:	7,950 lt	8,080 mt
Deadweight:	4,880 lt	4,960 mt
Clear Deck Space:	221 x 52 ft	67 x 16 m
Clear Deck Area:	11,700 ft ²	1,080 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, SF, EO, DYNPOS-AUTR, DK(+), COMF-V(3), Fire Fighter II, NAUT-OSV(A), HL(2.8), CLEAN DESIGN, OILREC, LFL*, NOFO 2009	

Capacities

Deck Cargo:	2,700 lt	2,740 t
Fuel Oil:	330,000 gal	1,250 m ³
Potable Water:	35,600 gal	130 m ³
Fresh Water:	153,000 gal	580 m ³
Drill/Ballast Water:	724,000 gal	2,740 m ³
Bulk Tanks (6 tanks):	11,300 ft ³	320 m ³
Liquid Mud (2.8 SG*):	8,160 bbl	1,300 m ³
*Max Structural Specific Gravity		
Methanol:	1,020 bbl	160 m ³
Base Oil:	2,210 bbl	350 m ³
Fire Fighting Foam:	660 gal	2.5 m ³

TIDEWATER

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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: 11/22/2023

Machinery

Diesel Electric Vessel			
Propulsive/Total HP:	5,900 / 11,200		
Z-Drives:	Yes		
Propellers (2):	Rolls Royce Contaz CTZ15 2200KW		
Primary Generators (4):	1,980 kw	690 v	60 hz
Driven by:	Cat 3516 CDITA		
Emergency Generators (1):	160 kw	690 v	60 hz
Driven by:	Cat C9 DITA		
Bow Thruster (3):	2xRRM Tunnel; 1xRRM Drop-Down		
Driven by:	880 kW Electric Motor		
Total Thrust:	44.2 st	40.1 mt	

Deck Equipment

Anchors (2):	3780 kg SPEC TYPE
Anchor Chain:	270 m of 48.3 mm chain per side
Windlass:	2 x 11.0T@0-12 m/min
Crane (1):	5 t @ 7 m
Aux. Crane (1):	2 t @ 7 m
Capstans (2):	10.2 t Rolls Royce CA100H
Tugger (2):	10.2 t Rolls Royce TUW100F

Accommodations

No. of Berths:	26
Cabins:	10x1-man, 4x2-man & 2x4-man
Certified to Carry:	26
Galley seating:	20
Hospital:	Yes

Registration

Flag: NORWAY	Home Port: TROMS Ø
Hull Number: 773	IMO N ^o : 9628386
Year Built: 2012	Call Sign: LDGG
Builder:	STX SOVIKNES
Tonnage (ITC):	4201 GT1799 NT

Performance*

Fuel Consumption Vs Speed		
Maximum:	29.1 m³/day (320 gph) @ 15 knots	
Cruising:	16 m³/day (180 gph) @ 12 knots	
Economical:	11 m³/day (120 gph) @ 11 knots	
Standby:	3.5 m³/day (39 gph) @ 0 knots	
Range @ 12 Knots:	22,500 nm	
Transfer Rates		
Fuel Oil:	660 gpm @ 250 ft	150 m³/h @ 76 m
Fresh Water:	660 gpm @ 300 ft	150 m³/h @ 92 m
Drill/Ballast Water:	1,100 gpm @ 300 ft	250 m³/h @ 92 m
Bulk:	31.3 cfm @ 190 ft	53.1 m³/h @ 57 m
Liquid Mud:	440 gpm @ 800 ft	100 m³/h @ 240 m
Base Oil:	330 gpm @ 250 ft	75 m³/h @ 76 m
Brine:	440 gpm @ 680 ft	100 m³/h @ 210 m
Methanol:	330 gpm @ 300 ft	75 m³/h @ 92 m

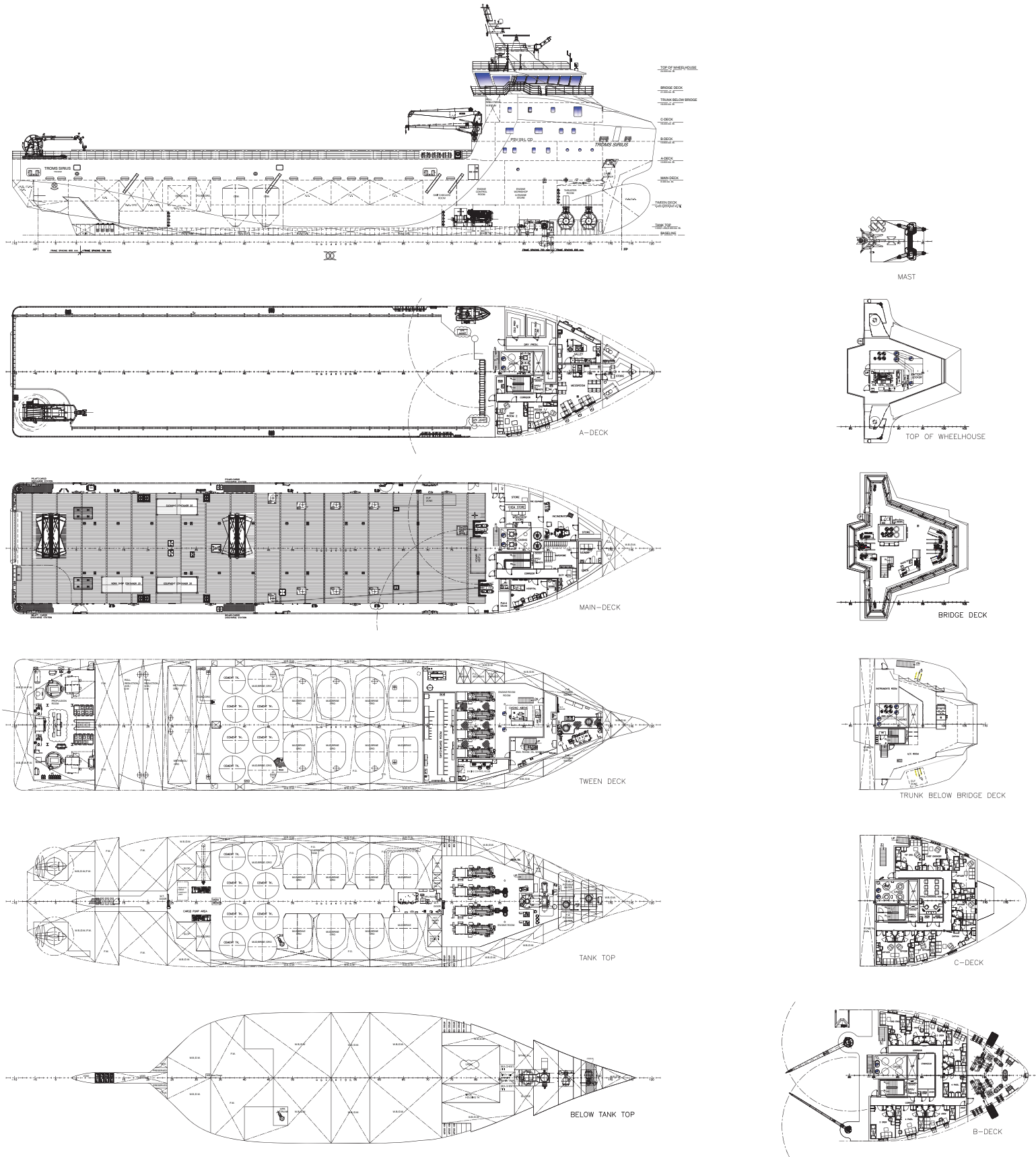
Nav/Comms Equipment

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

Special Equipment

Firefighting:	FiFi-2
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 Zone:	Yes
Rescue Boat:	15-Man FRC
Fuel Monitoring:	GREEN PILOT
Reefer Sockets:	8x 440V; 8x 230V
Misc:	Atlantic Canadian Safety Standby Compliant; ERN 99.99.99.99; 1xBHS Air Dryer; NOFO Sockets: 2x 440V; 6x 230V; Dacon Scoop; Scramble Net

*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.
01 WB FP TK C	DW/WB	109.5				109.5								
04 WB Tk S	DW/WB	72.5				72.5								
05 WB Tk P	DW/WB	49.7				49.7								
06 WB Tk S	DW/WB	80.1				80.1								
07 WB Tk P	DW/WB	76.2				76.2								
08 WB Tk S	DW/WB	37.2				37.2								
10 WB Tk S	DW/WB	66.6				66.6								
11 WB Tk P	DW/WB	66.6				66.6								
12 WB Tk S	DW/WB	80.9				80.9								
13 WB Tk P	DW/WB	80.9				80.9								
16 WB Tk P	DW/WB	26.6				26.6								
22 WB Tk S	DW/WB/FW	148.7				148.7								
23 WB Tk P	DW/WB/FW	139.7				139.7								
24 WB Tk C	DW/WB	250.9				250.9								
25 WB Stability Tk C	DW/WB/ORO	233.3				233.3								
26 WB Stability Tk C	DW/WB/ORO	287.9				287.9								
64 WB Tk P	DW/WB	36.9				36.9								
78 WB Tk S	DW/WB	36.9				36.9								
79 WB Tk C	DW/WB	156.4				156.4								
81 WB Tk P	DW/WB	57.5				57.5								
82 WB Tk P	DW/WB	109.6				109.6								
83 WB Tk S	DW/WB	109.6				109.6								
84 WB Tk P	DW/WB	108.1				108.1								
87 WB Tk S	DW/WB	101.8				101.8								
88 WB Tk P	DW/WB	79.4				79.4								
89 WB Tk S	DW/WB	79.4				79.4								
91 WB Tk S	DW/WB	57.7				57.7								
02 FW Tk S	Ship's FW	67.4					67.4							
03 FW Tk P	Ship's FW	67.4					67.4							
14 FW Tk S	FW	18.5						18.5						
15 FW Tk P	FW	18.5						18.5						
18 FW Tk S	FW	70.5						70.5						
19 FW Tk P	FW	70.5						70.5						
20 FW Tk S	FW	148.1						148.1						
21 FW Tk P	FW	148.1						148.1						
85 FW Tk S	FW	51.7						51.7						
86 FW Tk P	FW	51.7						51.7						
17 FO Tk P	FO	148.3		148.3										
27 FO Tk S	FO	148.3		148.3										
42 FO Tk S	FO	223.6		223.6										
43 FO Tk P	FO	234.3		234.3										
44 FO Tk S	FO	164.2		164.2										
45 FO Tk P	FO	58.8		58.8										
46 FO Tk S	FO/BO/ORO	94.6	94.6	94.6										
47 FO Tk P	FO/BO/ORO	94.6	94.6	94.6										
48 FO Tk S	FO	43.2		43.2										
49 FO Tk P	FO	83.2		83.2										
50 FO Service Tk P	FO	9.3		9.3										
51 FO Service Tk P	FO	9.2		9.2										
56 FO Service Tk P	FO	8.0		8.0										
69 FO Service Tk P	FO	9.1		9.1										
71 FO Settling Tk P	FO	16.3		16.3										
102 FO Emerg Tk	FO	2.3		2.3										
52 METH/BO/ORO Tk S	METH/BO/ORO	80.9	80.9								80.9			
53 METH/BO/ORO Tk P	METH/BO/ORO	80.9	80.9								80.9			
28 LM/BR TK S	LM/BR	130.7								130.7				
29 LM/BR TK P	LM/BR	130.7								130.7				
30 LM/BR TK S	LM/BR	141.3								141.3				
31 LM/BR/ORO TK P	LM/BR/ORO	141.3								141.3				
32 LM/BR/ORO TK S	LM/BR/ORO	141.4								141.4				
33 LM/BR/ORO TK P	LM/BR/ORO	141.4								141.4				
34 LM/BR/ORO TK S	LM/BR/ORO	93.7								93.7				
35 LM/BR/ORO TK P	LM/BR/ORO	93.7								93.7				
74 LM/BR/ORO TK P	LM/BR/ORO	141.3								141.3				
75 LM/BR/ORO Tk S	LM/BR/ORO	141.3								141.3				
58 Lube Oil Tk	LO	10.5										10.5		
77 Lube Oil Tk	LO	5.3										5.3		
36 Dry Bulk Tk S	Dry Bulk	53.1			53.1									
37 Dry Bulk Tk P	Dry Bulk	53.1			53.1									
38 Dry Bulk Tk S	Dry Bulk	53.1			53.1									
39 Dry Bulk Tk P	Dry Bulk	53.1			53.1									
40 Dry Bulk Tk S	Dry Bulk	53.1			53.1									
41 Dry Bulk Tk P	Dry Bulk	53.1			53.1									
Foam Tank	FOAM	2.5											2.5	
Total Volume [m ³]			351.0	1,347.3	318.6	2,740.6	134.8	577.6	0.0	1,296.8	161.8	15.8	2.5	0.0
Spec Sheet Total Volume [m ³]			351.0	1,249.9	318.6	2,740.6	134.8	577.6	0.0	1,296.8	161.8	15.8	2.5	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.

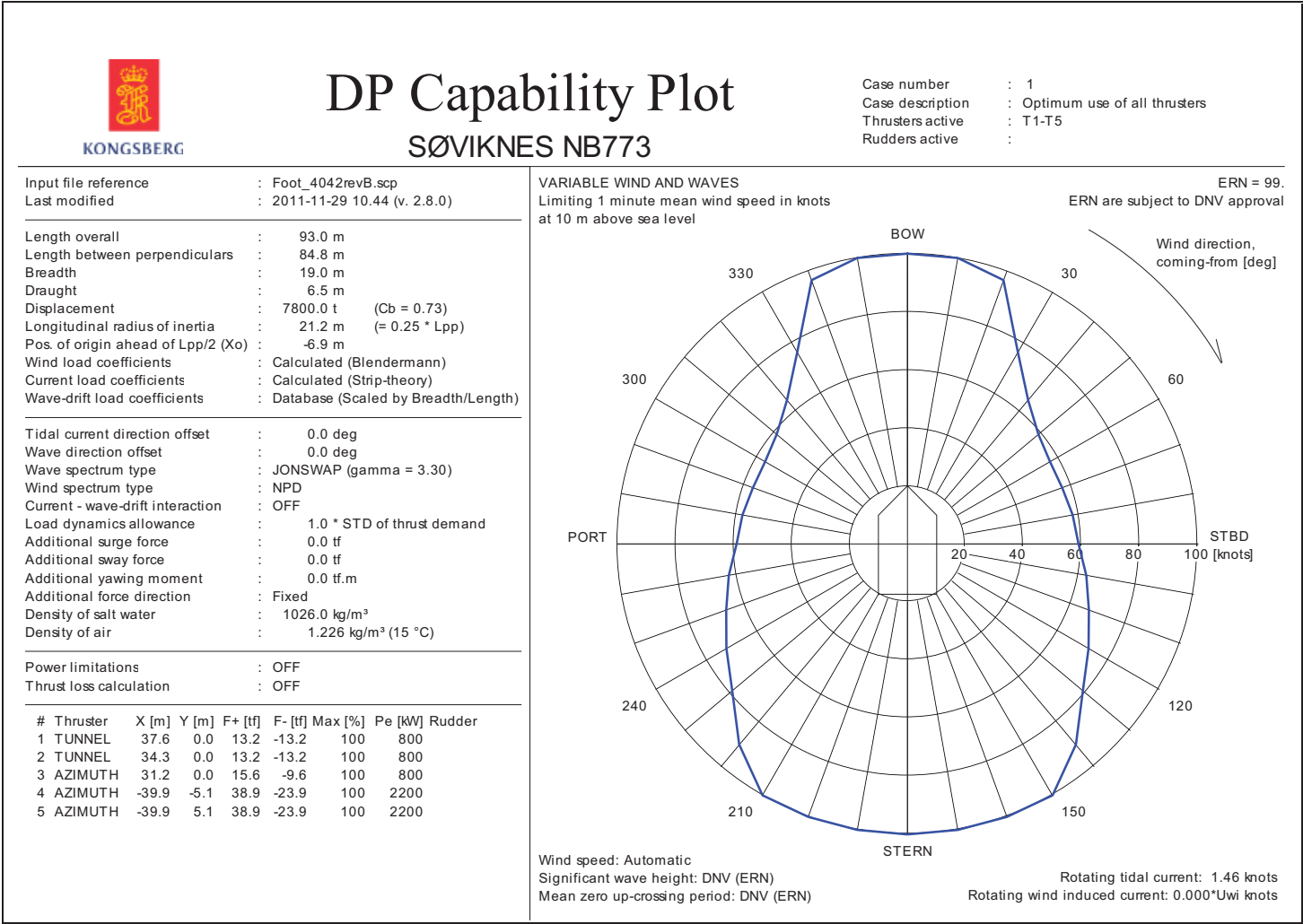


Figure 10: DP capability envelope for case 1.