



## VS 499 PSV

### Vessel Characteristics

Length, Overall:	294 ft	89.6 m
Beam:	68.9 ft	21 m
Depth:	31.5 ft	9.6 m
Maximum Draft:	24.9 ft	7.6 m
Minimum Height:	100 ft	31 m
Freeboard:	6.6 ft	2 m
Displacement:	9,840 lt	10,000 mt
Deadweight:	6,070 lt	6,160 mt
Clear Deck Space:	196 x 58 ft	60 x 18 m
Clear Deck Area:	11,000 ft <sup>2</sup>	1,020 m <sup>2</sup>
Deck Strength AFT:	2,050 lb/ft <sup>2</sup>	10 t/m <sup>2</sup>
Class Notations:	DNV: +1A1, Standby vessel(S), Supply vessel, Clean(Design), COMF(C-3, V-3), DK(+), DYN-POS(AUTR), EO, Gas fuelled, HL(2.8), Ice(C), LFL(*), NAUT(OSV(A)), OILREC, SF	

### Capacities

Deck Cargo:	3,350 lt	3,400 t
Fuel Oil:	226,000 gal	860 m <sup>3</sup>
Potable Water:	42,700 gal	160 m <sup>3</sup>
Fresh Water:	120,000 gal	460 m <sup>3</sup>
Drill/Ballast Water:	780,000 gal	2,950 m <sup>3</sup>
Bulk Tanks (4 tanks):	10,600 ft <sup>3</sup>	300 m <sup>3</sup>
Liquid Mud (2.8 SG*):	8,050 bbl	1,280 m <sup>3</sup>
*Max Structural Specific Gravity		
Methanol:	3,800 bbl	600 m <sup>3</sup>
Base Oil:	1,530 bbl	240 m <sup>3</sup>
Fire Fighting Foam:	2,010 gal	7.6 m <sup>3</sup>

## TIDEWATER

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Pg.2 Further Specifications

Pg.4 Capacity Table

Pg.3 General Arrangement

Pg.5 DP Capability Plot

Machinery

Diesel Electric Vessel			
Propulsive/Total HP:	3,280 / 9,850		
Z-Drives:	Yes		
Propellers (2):	STEERPROP SP 35 CRP, 2450KW		
Primary Generators (2):	2,500 kw	690 v	60 hz
Driven by:	W6L34DF		
Emergency Generators (1):	300 kw	690 v	60 hz
Driven by:	VOLVO D12 MG		
Bow Thruster (3):	2x FU-74-LTC-2000 TT, 1x AR63LNC DD		
Driven by:	2x 1000KW, 1x 880KW ELECTRIC MOTORS		
Total Thrust:	35.9 st	32.6 mt	

Deck Equipment

Anchors (2):	4320 KG SPEK
Anchor Chain:	270 m of 50 mm chain per side
Windlass:	2 x Adria winch 30T
Crane (2):	5 t @ 16 m
Tugger (2):	10 t ADRIA WINCH

Accommodations

No. of Berths:	24
Cabins:	12x1-man 7 6x2-man
Certified to Carry:	24
Galley seating:	22
Hospital:	Yes

Registration

Flag: NORWAY	Home Port: SKUDENESHAVN
Hull Number: 354	IMO N <sup>o</sup> : 9627772
Year Built: 2013	Call Sign: LDJK
Builder:	Kleven Verft AS
Tonnage (ITC):	5335 GT1914 NT

Performance\*

Fuel Consumption Vs Speed		
Maximum:	18.1 m³/day (200 gph) @ 15 knots	
Cruising:	11 m³/day (120 gph) @ 11 knots	
Economical:	8.1 m³/day (89.2 gph) @ 10 knots	
Standby:	2.4 m³/day (26.4 gph) @ 0 knots	
Range @ 11 Knots:	22,400 nm	
Transfer Rates		
Fuel Oil:	880 gpm @ 300 ft	200 m³/h @ 92 m
Fresh Water:	880 gpm @ 300 ft	200 m³/h @ 92 m
Drill/Ballast Water:	880 gpm @ 300 ft	200 m³/h @ 92 m
Bulk:	44.3 cfm @ 190 ft	75.3 m³/h @ 57 m
Liquid Mud:	440 gpm @ 800 ft	100 m³/h @ 240 m
Base Oil:	440 gpm @ 300 ft	100 m³/h @ 92 m
Brine:	440 gpm @ 800 ft	100 m³/h @ 240 m
Methanol:	330 gpm @ 300 ft	75 m³/h @ 92 m

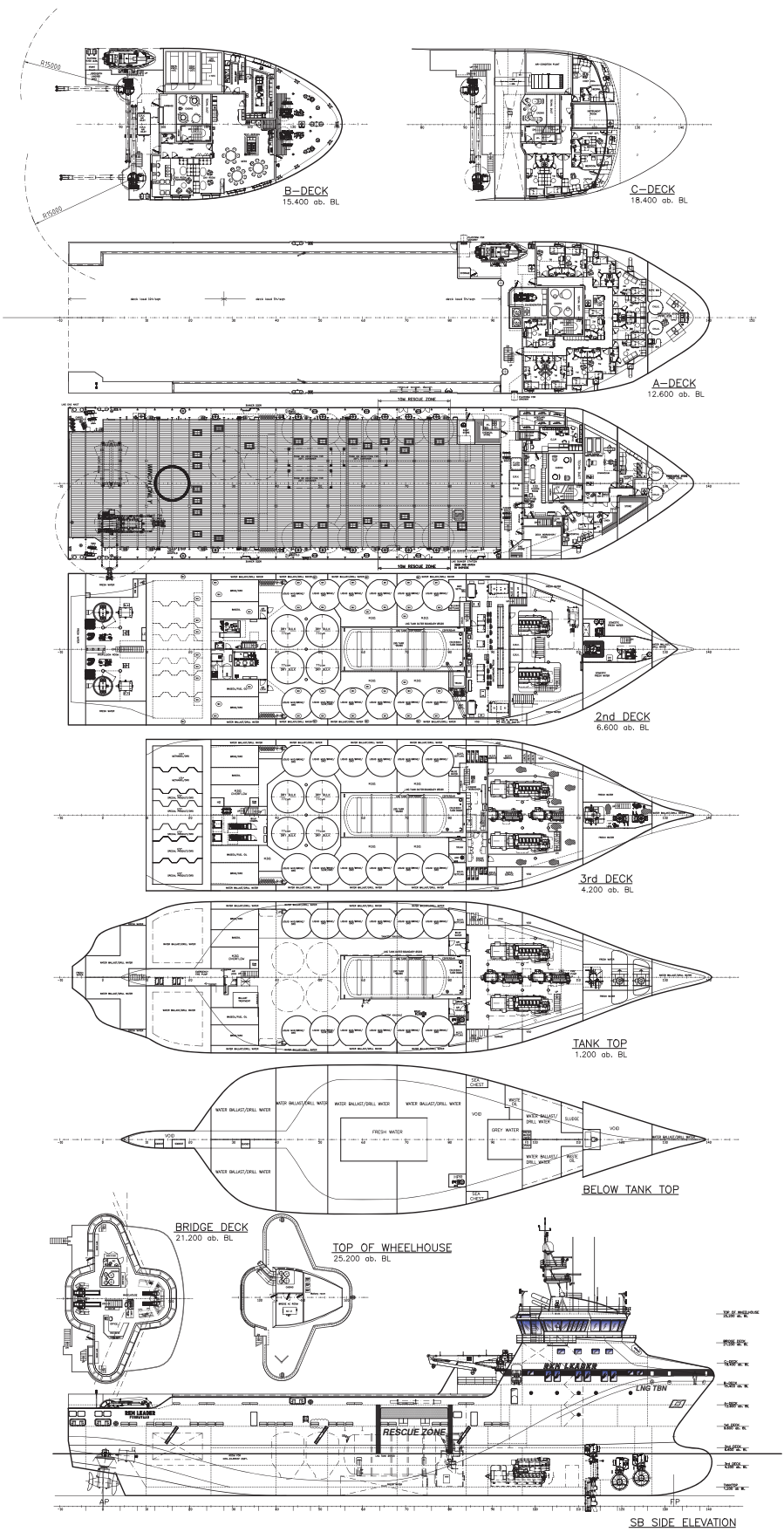
Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Speed Indicators:	2
Doppler Log:	1
Radio:	4 x VHF; 1 x SSB
Sat Com:	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 Mixers:	Yes
Tank Cleaning:	Yes
Rescue Zone:	Yes
Rescue Boat:	10-Man GTC 700 FRC
Reefer Sockets:	24x 220V 16A
Misc:	HPR Trunk; ORO Capacity - 1883.0 m³; Special Prod. Capacity - 398.9 m³; MSD

\*Approximate values assuming Ideal Conditions



# LEADER 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/ LFL	Lube Oil	Foam	Oil Disp.
01 FOREPEAK C	DW/WB	124.8				124.8								
201 WB/DW DB P	DW/WB	34.6				34.6								
202 WB/DW DB S	DW/WB	34.6				34.6								
210 ROLL RED TK S	DW/WB	221.2				221.2								
301 U-TANK C	DW/WB	256.2				256.2								
302 U-TANK C	DW/WB	255.2				255.2								
303 U-TANK C	DW/WB	219.1				219.1								
31 WB/DW WG P	DW/WB	52.1				52.1								
32 WB/DW WG S	DW/WB	52.1				52.1								
33 WB/DW WG P	DW/WB	58.1				58.1								
34 WB/DW WG S	DW/WB	58.1				58.1								
35 WB/DW WG P	DW/WB	39.2				39.2								
36 WB/DW WG S	DW/WB	39.2				39.2								
401 L-TANK P	DW/WB	151.3				151.3								
402 L-TANK S	DW/WB	149.6				149.6								
502 CD TK C	DW/WB	680.0				680.0								
61 STERN TANK P	DW/WB	53.8				53.8								
62 STERN TANK S	DW/WB	53.8				53.8								
63 FW STERN SIDE TK P	FW	93.5				93.5		93.5						
64 FW STERN SIDE TK S	FW	111.3				111.3		111.3						
65 FW STERN SIDE TK C	FW	215.1				215.1		215.1						
11 FW WG TK P	Ship's FW	95.7					95.7							
12 FW WG TK S	Ship's FW	95.7					95.7							
13 FW DOMESTIC TK P	FW	70.2						70.2						
14 FW DOMESTIC TK S	FW	91.5						91.5						
27 FW WG TK P	FW	38.8						38.8						
28 FW WG TK S	FW	38.8						38.8						
304 FW DB TK C	FW	186.2						186.2						
213 FO SERVICE P	FO	6.3		6.3										
214 FO SERVICE S	FO	6.3		6.3										
224 FO SERVICE P	FO	15.3		15.3										
225 FO SERVICE S	FO	15.3		15.3										
321 FO STORAGE TK P	FO	115.6		115.6										
331 FO SETTTL TK P	FO	40.9		40.9										
332 FO SETTTL TK S	FO	39.0		39.0										
333 FO DEEP TK P	FO	114.7		114.7										
334 FO DEEP TK S	FO	96.5		96.5										
335 FO DEEP TK P	FO	111.9		111.9										
336 FO DEEP TK S	FO	111.9		111.9										
411 FO STORAGE TK P	FO	141.2		141.2										
412 FO STORAGE TK S	FO	141.2		141.2										
415 FO OVERFLOW TK P	FO	116.8		116.8										
416 FO STORAGE TK S	FO	23.9		23.9										
227 FO SERVICE EM GEN P	FO	1.6		1.6										
413 BO TK P	BO	121.3	121.3											
414 BO TK S	BO	121.3	121.3											
311 LM/BR/ORO P	LM/ORO	119.6								119.6				
312 LM/BR/ORO S	LM/ORO	119.6								119.6				
313 LM/BR/ORO P	LM/ORO	115.6								115.6				
314 LM/BR/ORO S	LM/ORO	115.6								115.6				
315 LM/BR/ORO P	LM/ORO	115.6								115.6				
316 LM/BR/ORO S	LM/ORO	115.6								115.6				
317 LM/BR/ORO P	LM/ORO	115.6								115.6				
318 LM/BR/ORO S	LM/ORO	115.6								115.6				
319 LM/BR/ORO P	LM/ORO	115.6								115.6				
320 LM/BR/ORO S	LM/ORO	115.6								115.6				
322 LM/BR/ORO S	LM/ORO	115.6								115.6				
512 LFL/SPEC/ORO S	LFL/SPEC/ORO	97.0									97.0			
514 LFL/SPEC/ORO S	LFL/SPEC/ORO	107.5									107.5			
515 LFL/SPEC/ORO P	LFL/SPEC/ORO	59.0									59.0			
516 LFL/SPEC/ORO S	LFL/SPEC/ORO	59.0									59.0			
517 LFL/SPEC/ORO C	LFL/SPEC/ORO	76.4									76.4			
511 LFL METH/ORO P	LFL/METH/ORO	97.0									97.0			
513 LFL METH/ORO S	LFL/METH/ORO	107.5									107.5			
341 DRY BULK P	DRY BULK	75.3			75.3									
342 DRY BULK S	DRY BULK	75.3			75.3									
343 DRY BULK P	DRY BULK	75.3			75.3									
344 DRY BULK S	DRY BULK	75.3			75.3									
419 FOAM TK P	FOAM	7.6											7.6	
15 LO TK P	LO	3.0										3.0		
215 LO TK P	LO	1.8										1.8		
217 LO TK P	LO	1.6										1.6		
219 LO TK P	LO	1.3										1.3		
221 9L20 LO TK P	LO	3.8										3.8		
223 6L34 LO TK P	LO	8.0										8.0		
611 LO TK P	LO	4.4										4.4		
Total Volume [m <sup>3</sup> ]			242.6	1,098.4	301.2	2,952.9	191.4	845.4	0.0	1,279.6	603.4	23.9	7.6	0.0
Spec Sheet Total Volume [m <sup>3</sup> ]			242.6	856.9	301.2	2,952.9	191.4	425.5	0.0	1,279.6	603.4	23.9	7.6	0.0

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

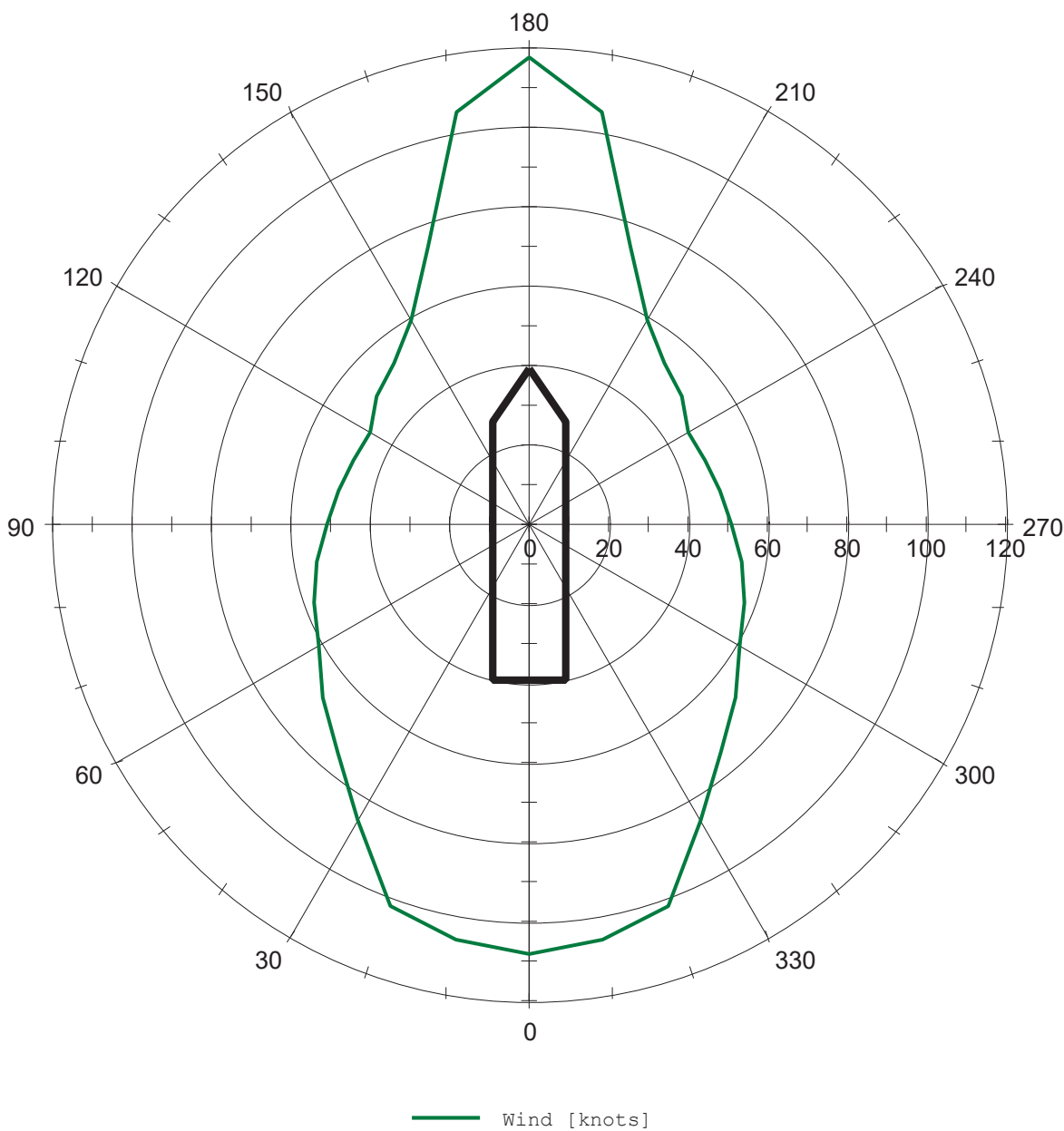
\*Capacities shown in **RED** are excluded from the total volume.

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

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



Ship: 4448 VS499 LNG-PSV  
Run : DP Plot 1



External:  
Variable wind velocity rotating 360 deg  
1.50 knots wind generated current rotating 360 deg  
Variable wave height rotating 360 deg