



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:	7,540 lt	7,660 mt				
Deadweight:	4,470 lt	4,540 mt				
Clear Deck Space:	209 x 53 ft	64 x 16 m				
Clear Deck Area:	10,900 ft ²	1,010 m ²				
Deck Strength FWD:	1,020 lb/ft²	5 t/m²				
Deck Strength AFT:	2,050 lb/ft²	10 t/m²				
Class Notations:	DNV: +1A1, Offshore service vessel, Clean(Design), COMF(C-3, V-3), DK(+), DYNPOS(AUTR), EO, HL(2.8), Ice(C), LFL(*), NAUT(OSV(A)), OILREC, SF					

Capacities

Deck Cargo:	2,850 lt	2,900 t
Fuel Oil:	251,000 gal	950 m³
Potable Water:	35,100 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 ft³	320 m ³
Liquid Mud (2.8 SG*): *Max Structural Specific Gravity	5,470 bbl	870 m ³
Methanol:	920 bbl	150 m ³
Base Oil:	1,420 bbl	230 m ³
Brine:	2,320 bbl	370 m ³
Fire Fighting Foam:	1,450 gal	5.5 m ³

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:		6,700 / 8,730				
Z-Drives:		Yes				
Propellers (2):	AZ	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:	1050KW ELECTRIC MOTORS					
Total Thrust:		35.2 st	31.9 mt			

Deck Equipment

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

Accommodations

No. of Berths:	25
Cabins:	15x1-man & 5x2-man
Certified to Carry:	25
Galley seating:	20
Hospital:	Yes

Registration

Flag: NORWAY	Home Port: SANDNES				
Hull Number: 2013	IMO N ^o : 9645683				
Year Built: 2013	Call Sign: LAEY8				
Builder:	Zhejiang Shipbuilding Co., Ltd.				
Tonnage (ITC):	4003 GT 1533 NT				

Performance*

Fuel Consumption Vs Speed							
Maximum:	28.8 m³/day (320 gph) @ 15 knots						
Cruising:	16 m	n ³ /day (180 gph) @ 12 knots					
Economical:	10 n	n³/day (110 gph) @ 10 knots					
Standby:	2.5 m³/day (27.5 gph) @ 0 knots						
Range @ 12 Knots:	17,000 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
Gyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	3 x VHF; 1 x SSB
Sat Com:	2X INMARSAT-C

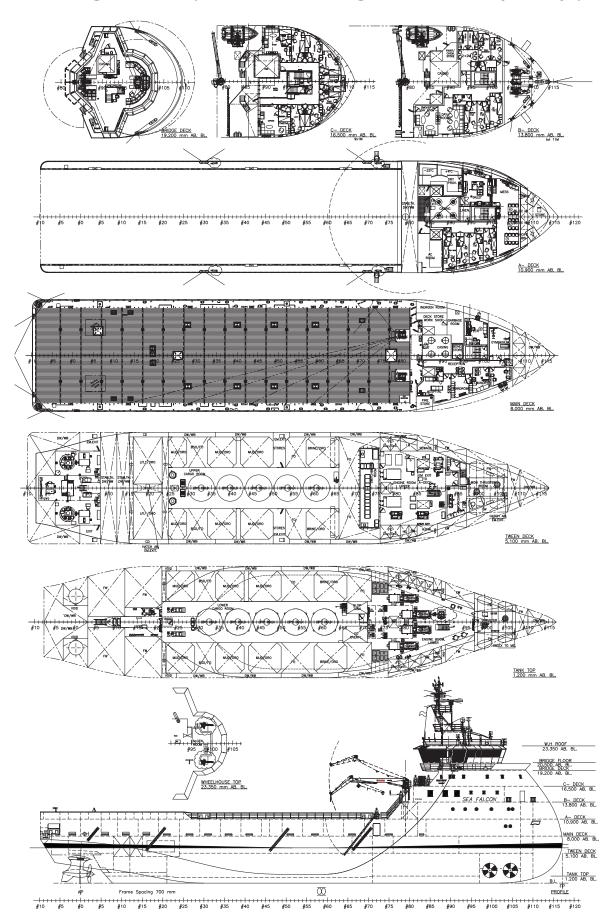
Special Equipment

Firefighting:	2 x 1,800 m3/hr monitors
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:	15-Man Merlin 615 FRC
Gas Detection:	Yes
Misc:	ORO Capacity - 1385.8 m3; MSD; Eye Wash Station

*Approximate values assuming Ideal Conditions

General Arrangement (Current configuration may vary.)





Capacity Table



Tank	Contents	Volume m³	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	117.1				117.1								
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				143.7		78.8						
FW WING TK 1 PS	Ship's FW	66.4					66.4	70.0						
FW WING TK 1 SB	Ship's FW	66.4					66.4							
FW WING TK 2 PS	FW	67.4					00.4	67.4						
FW WING TK 2 SB	FW	67.4						67.4						
FW WING TK 2 3B	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						
				400.4				30.6						
FO TK 1 PS FO TK 1 SB	FO	198.1		198.1 198.1										
	FO	198.1		164.8										
FO TK 2 PS FO TK 2 SB	FO FO	164.8 164.8		164.8										
	FO	164.6												
FO SETTLING 1		_		16.2										
FO SETTLING 2	FO	16.2		16.2										
FO SERVICE TK 1 FO SERVICE TK 2	FO	19.1		19.1										
	FO FO	19.1		19.1										
FO DRAIN TK FO OVERFLOW		6.8		6.8										
	FO FO	45.4	442.0	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					1010					
BRINE TK 1 PS	BRI/ORO	184.8							184.8					
BRINE TK 1 SB	BRI/ORO	184.8							184.8		72.0			
LFL TK PS	LFL/ORO	73.0									73.0			
LFL TK SB	LFL/ORO	73.0								400 5	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			64.4					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 Vo	olume [m³]	225.8	1,074.5	320.4	2,191.6	132.7	451.1	369.6	870.2	146.0	28.6	5.5	0.0
Snac	Sheet Total Vo			951.6		2,191.6	132.7	451.1	369.6	870.2	146.0	28.6	5.5	0.0
opec				may vary					0.00.0	0.0.2	010	_5.0	0.0	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.

 $^{^{\}star}\text{Capacities}$ shown in GREEN are counted for multiple Tank Capacities.

DP Capability Plot





DP Capability Plot

DESS - ZJ 2019-2026

VARIABLE WIND AND WAVES

Case number Case description T1-T4 Thrusters active

Optimum use of all thrusters

Rudders active

ERN = 99.

: StatCap v. 2.9.0 Version 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 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) Wind load coefficients Calculated (Blendermann) Current load coefficients Calculated (Strip-theory) Database (Scaled by Breadth/Length) Tidal current direction offset Wave direction offset 0.0 deg JONSWAP (gamma = 3.30) Wave spectrum type Wind spectrum type Current - wave-drift interaction 1.0 * STD of thrust demand Load dynamics allowance Additional surge force 0.0 tf Additional sway force 0.0 tf Additional yawing moment 0.0 tf.m Additional force direction Density of salt water 1026.0 kg/m³ 1.226 kg/m³ (15 °C) Density of air : ON Power limitations : ON Thrust loss calculation X [m] Y [m] F+ [tf] F- [tf] Max [%] Pe [kW] Rudder # Thruster 1 TUNNEL 32.2 0.0 13.2 -13.2 100 880 880

0.0 13.2 -13.2

4.3 44.2 -27.2

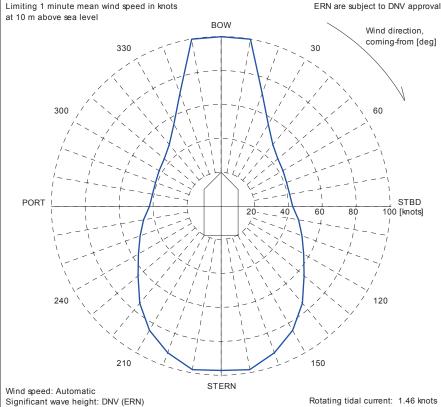
44 2 -27 2

100

100

2500

2500



Mean zero up-crossing period: DNV (ERN)

Rotating wind induced current: 0.000*Uwi knots

2 TUNNEL

3 AZIMUTH -410

4 AZIMUTH -41.0

28.7

-4.3