



#### **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 7,650 mt 4,540 mt					
Displacement:	7,530 lt						
Deadweight:	4,470 lt						
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/ft²	5 t/m²					
Deck Strength AFT:	2,050 lb/ft² 10 t,						
Class Notations:	DNV: +1A1, Offshore servi COMF(V-3), DK(+), DYNP Ice(C), LFL(*), NAUT(OSV	OS(AUTR), E0, HL(2.8),					

#### **Capacities**

Deck Cargo:	2,790 lt	2,830 t
Fuel Oil:	252,000 gal	950 m³
Potable Water:	34,500 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 ft³	320 m <sup>3</sup>
Liquid Mud (2.8 SG*):	5,480 bbl	870 m³
*Max Structural Specific Gravity		
Methanol:	920 bbl	150 m <sup>3</sup>
Base Oil:	1,420 bbl	230 m³
Brine:	2,300 bbl	360 m <sup>3</sup>
Fire Fighting Foam:	1,320 gal	5 m <sup>3</sup>

## **TIDEWATER**

#### Find out more

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

#### tdw.com

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	P 100RRM AZIF	ULL, 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):		TT22	DO DPN TT CP
Driven by:		880KW ELEC	TRIC MOTORS
Total Thrust:		29.5 st	26.8 mt

#### **Deck Equipment**

Anchors (2):	3540 KG SPEK
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 ODIM MC E 80/18-36
Tugger (2):	10 t MacGregor MG-HUW-10UR/UL

#### **Accommodations**

No. of Berths:	26
Cabins:	14x1-man, 4x2-man & 1x4-man
Certified to Carry:	26
Galley seating:	20
Hospital:	Yes

### Registration

Flag: NORWAY	Home Port: SKUDENESHAVN
Hull Number: 2024	IMO N <sup>o</sup> : 9656670
Year Built: 2014	Call Sign: LAEU8
Builder:	Zhejiang Shipbuilding Co., Ltd.
Tonnage (ITC):	4007 GT 1533 NT

#### **Performance\***

Fuel Consumption Vs Speed						
Maximum:	31 m	<sup>3</sup> /day (340 gph) @ 15 knots				
Cruising:	15.6 m³/day (170 gph) @ 12 knots					
Economical:	10.4 m	n³/day (110 gph) @ 10 knots				
Standby:	2.4 m	<sup>3</sup> /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
Gyro Compass:	3
Wind Speed Indicators:	3
Doppler Log:	1
Radio:	3 x VHF; 1 x SSB
Sat Com:	2x INMARSAT-C

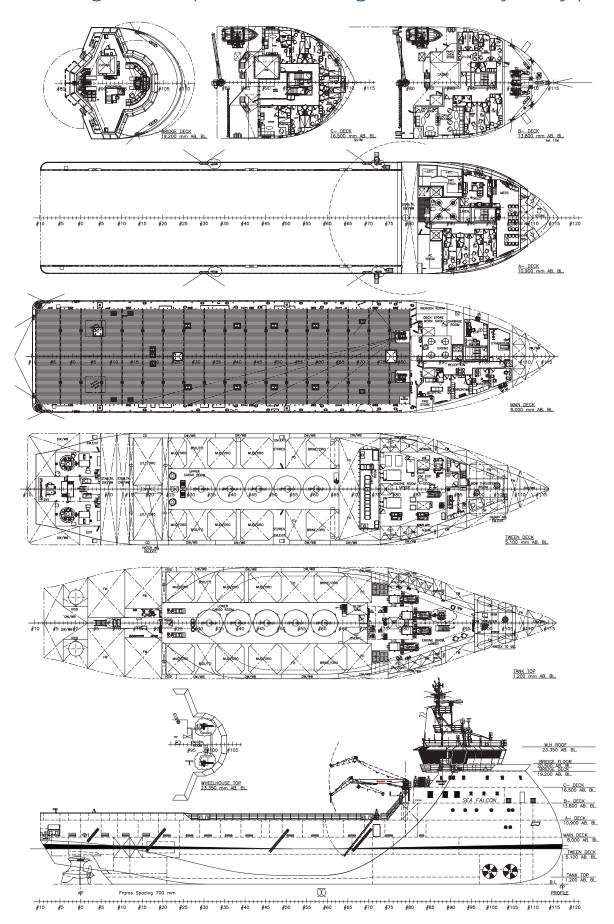
### **Special Equipment**

Firefighting:	FiFi Other 2 x 1,200 m3/hr monitors
Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 2 x DGPS 1 x Microwave-based; 2 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 - 1382.4 m3; MSD; Eye Wash Station

\*Approximate values assuming Ideal Conditions

## General Arrangement (Current configuration may vary.)





## 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 WB TK 5 DB SB	DW/WB	106.5 106.5				106.5 106.5								
WB TK 6 DB 98	DW/WB	100.5				101.5								
WB TK 6 DB SB	DW/WB	101.5				101.5								
WB WING TK 3 PS	DW/WB	46.5				46.5								
WB WING TK 3 SB	DW/WB	59.0				59.0								
WB WING TK 4 PS	DW/WB	43.6				43.6								
WB WING TK 4 SB	DW/WB	43.6				43.6								
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	48.4				48.4								
WB WING TK 6 SB	DW/WB	48.4				48.4								
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	65.3					65.3							
FW WING TK 1 SB	Ship's FW	65.3					65.3							
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	199.3		199.3										
FO TK 1 SB	FO	199.3		199.3										
FO TK 2 PS	FO	164.7		164.7										
FO TK 2 SB	FO	164.7		164.7										
FO SETTLING 1	FO	16.2		16.2 16.2										
FO SETTLING 2 FO SERVICE TK 1	FO FO	16.2 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	112.8	112.8	112.8										
BASE OIL TK SB	FO/BO	112.8	112.8	112.8										
BRINE TK 1 PS	BRI/ORO	182.5		11210					182.5					
BRINE TK 1 SB	BRI/ORO	182.5							182.5					
LFL TK PS	LFL/ORO	73.0									73.0			
LFL TK SB	LFL/ORO	73.0									73.0			
MUD TK 1 PS	LM/ORO	186.8								186.8				
MUD TK 1 SB	LM/ORO	186.8								186.8				
MUD TK 2 PS	LM/ORO	153.6								153.6				
MUD TK 2 SB	LM/ORO	153.6								153.6				
MUD TK 3 PS	LM/ORO	95.3								95.3				
MUD TK 3 SB	LM/ORO	95.3								95.3				
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 TK	FOAM	5.0											5.0	
	-													
			007.0	4.050.5	000.0	0.460.5	400.0	45.4	007.6	0711	440.0	00.0	-	0.0
-		lume [m³]						451.1	365.0	871.4	146.0	28.6	5.0	0.0
Spec Sheet Total Volume [m³] 225.6 953.6 320.4 2,190.5 130.6 451.1 365.0 871.4 146.0 28.6 5.0 0.0												28.6	5.0	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





Additional sway force

Additional yawing moment

## DP Capability Plot

DESS - ZJ 2019-2026

Case number Case description Thrusters active Rudders active

Optimum use of all thrusters

: T1-T4

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 force direction : Fixed 1026.0 kg/m<sup>3</sup> Density of salt water Density of air 1.226 kg/m³ (15 °C) Power limitations : ON : ON Thrust loss calculation # Thruster

0.0 tf

0.0 tf.m

X [m] Y [m] F+ [tf] F- [tf] Max [%] Pe [kW] Rudder 1 TUNNEL 32.2 0.0 13.2 -13.2 880 2 TUNNEL 0.0 13.2 -13.2 880 28.7 100 3 AZIMUTH -41.0 -4.3 44.2 -27.2 100 2500 4 AZIMUTH -41.0 4.3 44.2 -27.2 2500

