



#### **Vessel Characteristics**

Length, Overall:	257.9 ft	78.6 m					
Beam:	57.7 ft	17.6 m					
Depth:	25.3 ft	7.7 m					
Maximum Draft:	21.7 ft	6.6 m					
Light Draft:	10.1 ft	3.1 m					
Minimum Height:	85.3 ft	26 m					
Freeboard:	3.9 ft	1.2 m					
Displacement:	5,910 lt	6,010 mt					
Deadweight:	3,670 lt	3,730 mt					
Clear Deck Space:	182 x 47 ft	56 x 14 m					
Clear Deck Area:	8,610 ft <sup>2</sup>	800 m <sup>2</sup>					
Deck Strength AFT:	1,020 lb/ft²	5 t/m²					
Class Notations:	DNV: +1A1, Fire fighter(I+), Clean(Design), COM-F(V-3), DK(+), DYNPOS(AUTR), EO, HL(2.8), LFL(*), NAUT(OSV(A)), OILREC, SF						

### **Capacities**

Deck Cargo:	2,070 lt	2,100 t
Fuel Oil:	208,000 gal	790 m <sup>3</sup>
Potable Water:	65,100 gal	250 m <sup>3</sup>
Fresh Water:	152,000 gal	580 m <sup>3</sup>
Drill/Ballast Water:	402,000 gal	1,520 m <sup>3</sup>
Bulk Tanks (5 tanks):	10,400 ft³	300 m <sup>3</sup>
Liquid Mud (2.8 SG*): *Max Structural Specific Gravity	6,130 bbl	970 m <sup>3</sup>
Methanol:	1,120 bbl	180 m³
Base Oil:	970 bbl	150 m <sup>3</sup>
Fire Fighting Foam:	420 gal	1.6 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:	4,290 / 6,970						
Z-Drives:		Yes					
Propellers (2):	STP 1212 FPP, 1600KW						
Primary Generators (4):	1,300 kw 690 v 60 hz						
Driven by:	MTU 12V 4000 M50B						
Emergency Generators (1):	99 kw	690 v	60 hz				
Driven by:	John Deere 6068 TFM50						
Bow Thruster (2):	TUNNEL						
Driven by:	830KW ELECTRIC MOTORS						
Total Thrust:		27.8 st	25.2 mt				

### **Deck Equipment**

Anchors (2):	2850 KG SPEK
Anchor Chain:	250 m of 42 mm chain per side
Windlass:	AW42-42K3-2CL-2MD 13.8 M/MIN
Crane (1):	2.9 t @ 10 m
Aux. Crane (1):	1.3 t @ 15 m
Capstans (3):	10 t NMD 2x AFT, 1xFWD @ 14 M/MIN
Tugger (2):	10 t TU10-1MD

#### **Accommodations**

No. of Berths:	25
Cabins:	13x1-man, 1x2-man, 2x3-man & 1x4-man
Certified to Carry:	25
Galley seating:	12
Hospital:	Yes

### Registration

Flag: NORWAY	Home Port: SKUDENESHAVN					
Hull Number: 1684	IMO N <sup>o</sup> : 9534353					
Year Built: 2010	Call Sign: LAFO8					
Builder:	FJELLSTRAND SHIPYARD AS					
Tonnage (ITC):	2814 GT 901 NT					

#### **Performance\***

Fuel Consumption Vs Speed							
Maximum:	19.5 m³/day (210 gph) @ 13 knots						
Cruising:	14.4 m <sup>3</sup>	/day (160 gph) @ 11.5 knots					
Economical:	11 m	<sup>3</sup> /day (120 gph) @ 10 knots					
Standby:	2.7 m³/day (29.7 gph) @ 0 knots						
Range @ 11.5 Knots:		15,100 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:	34.8 cfm @ 190 ft	59.1 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

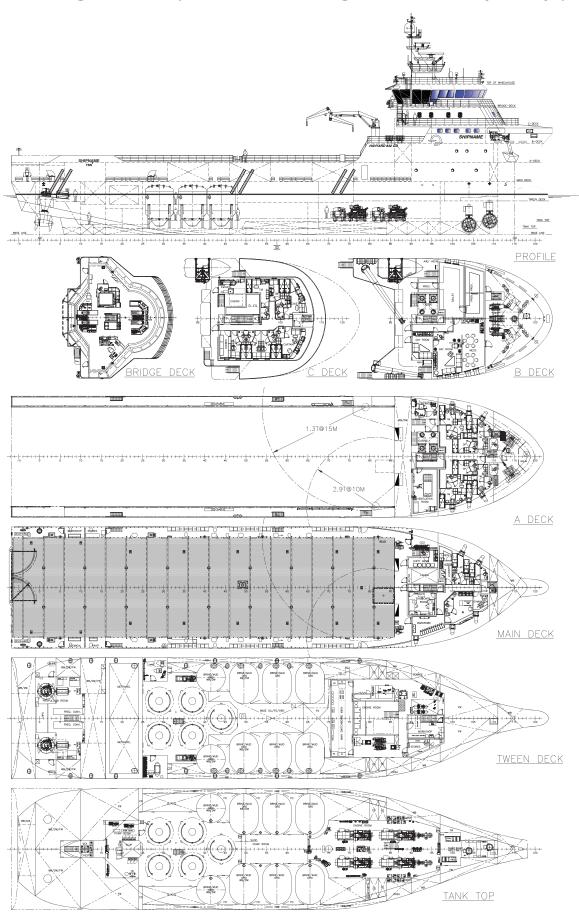
### **Special Equipment**

Firefighting:	FiFi-1
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 SOLAS MOB
Reefer Sockets:	15x 220V 16A, 3x 440V 32A
Misc:	MSD; ORO Capacity - 1129.2 m3; Glycol Capacity - 156.0 m3

\*Approximate values assuming Ideal Conditions

# General Arrangement (Current configuration may vary.)





# Capacity Table



Tank	Contents	Volume	Base	Fuel	Dry	DW/WB	Potable	Fresh	Reine	Liquid	Methanol	Lube	Form	Oil
Iank		m <sup>3</sup>	Oil	Oil	Bulk	DW/WB	Water	Water	Brine	Mud	Wetnanoi	Oil	Foam	Disp.
01 WB TK	DW/WB	110.7				110.7								
04 WB TK PS	DW/WB	75.6				75.6								
05 WB TK SB 10 WB/DW PS	DW/WB	47.3 159.8				47.3 159.8								
11 WB/DW PS	DW/WB	159.8				159.8								
21 WB TK PS	DW/WB	139.4				139.4								
22 WB TK SB	DW/WB	139.4				139.4								
23 WB TK PS	DW/WB	115.6				115.6								
24 WB TK SB	DW/WB	115.6				115.6								
40 LM TK PS	DW/WB/LM/ORO	133.8				133.8				133.8				
41 LM TK SB	DW/WB/LM/ORO	133.8				133.8				133.8				
42 LM TK PS	DW/WB/LM/ORO/MEG	85.9				85.9				85.9				
43 LM TK SB	DW/WB/LM/ORO/MEG	85.9				85.9				85.9				
50 WB TK C	DW/WB	17.2				17.2								
54 WB TK C	DW/WB	183.5				183.5		400.0						
58 WB/DW/FW C	DW/WB/FW	187.5				187.5		187.5						
59 WB/DW/FW PS 60 WB/DW/FW SB	DW/WB/FW DW/WB/FW	81.5 80.6				81.5 80.6		81.5 80.6						
61 WB TK	DW/WB/FW	149.0				149.0		00.0						
62 WB TK STAB	DW/WB	108.8				108.8								
2 FW PS	Ship's FW	121.5					121.5							
3 FW SB	Ship's FW	125.1					125.1							
49 FW	FW	80.3						80.3						
52 FW PS	FW	73.0						73.0						
53 FW SB	FW	73.0						73.0						
12 FO PS	FO	110.5		110.5										
13 FO SB	FO	102.6		102.6										
20 FO C	FO	67.8		67.8										
27 FO PS	FO	44.1		44.1										
28 FO SB 29 FO PS	FO FO	44.1 44.1		44.1 44.1										
30 FO SB	FO	44.1		44.1										
31 FO PS	FO	31.3		31.3										
32 FO SB	FO	31.3		31.3										
33 FO OVERFLOW	FO	34.7		34.7										
34 FO C	FO	67.9		67.9										
35 FO/BO/ORO	FO/BO/ORO	154.6	154.6	154.6										
65 FO PS	FO	22.3		22.3										
66 FO SB	FO	22.3		22.3										
67 FO SETT PS	FO	12.9		12.9										
68 FO SETT SB	FO	12.9		12.9										
69 FO DAY PS	FO	14.7		14.7										
70 FO DAY SB	FO	14.7 78.0		14.7										
25 GLYCOL PS 26 GLYCOL SB	GLY GLY	78.0												
56 METH PS	METH	89.3									89.3			
57 METH SB	METH	89.3									89.3			
36 LM PS	LM/BR/ORO	133.8								133.8	23.0			
37 LM SB	LM/BR/ORO	133.8								133.8				
38 LM PS	LM/BR/ORO	133.8								133.8				
39 LM SB	LM/BR/ORO	133.8								133.8				
FOAM TANK	FOAM	1.6											1.6	
44 CEMENT	DRY BULK	59.1			59.1									
45 CEMENT	DRY BULK	59.1			59.1									
46 CEMENT	DRY BULK	59.1			59.1									
47 CEMENT	DRY BULK	59.1 59.1			59.1									
48 CEMENT 8 LO TK	DRY BULK LO	59.1 2.2			59.1							2.2		
9 LO TK	LO	4.4										4.4		
71 LO SCHOTTEL PS	LO	2.5										2.5		
72 LO SB	LO	1.9										1.9		
	Total Vo	lume [m³]				2,310.7 1,521.7		575.9 575.9	0.0	974.6 974.6	178.6 178.6	11.0	1.6	0.0
*Canacities shown are	for lead vessel. Actual ca					1,521./	240.0	5/5.9	0.0	974.6	178.6	11.0	1.0	0.0

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.

 $<sup>{}^{\</sup>star}$ Capacities shown in GREEN are counted for multiple Tank Capacities.

# DP Capability Plot



Kongsberg Maritime AS

#### 6 RESULTS

#### 6.1 Case 1

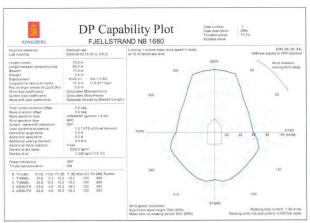


Figure 10: DP capability envelope for case 1.

1098231 / A / Page 24 of 57