



Platform Supply Vessels - Pacific Liberty

The L Class vessels are fuel-efficient and equipped with a newly developed high efficiency propulsion pods and a four-engine diesel electric power plant making them well suited for harsh environment deep water supply. These FiFi 1, Dynamic Positioning (DP) AUTR classed vessels are SPS Compliant, Clean Class and designed to carry large quantities of drilling mud up to 1,800 m<sup>3</sup> compliant with the IBC code regulations. The vessels have very large deadweight and highly flexible cargo system layouts for maximum product flexibility. These vessels have displayed superior station keeping abilities in harsh and monsoon conditions.

The L Class vessels are:

- Pacific Leader
- Pacific Legacy
- Pacific Legend
- Pacific Liberty

### Top Features

1. Highly fuel efficient.
2. Large liquid & dry bulk cargo capacity.
3. Comfortable & quiet accommodation.
4. Excellent station keeping.

### Key Specifications

- Free Deck Area - 912 m<sup>2</sup>
- Brake Horsepower - 10616 bHP
- Deadweight - 5263 t
- Deck Load Capacity - 2500 t



General Information	
Vessel Name	Pacific Liberty
Built	JMU Japan, January 2015
Flag	Singapore
Call Sign	9V7311
IMO No.	9648398
Classification	
Class Notation	DNV +1A1 Fire fighter(I) Offshore service vessel(Supply) Clean DYNPOS(AUTR) EO SF SPS
Dimensions	
Length (LOA)	97.29 m
Beam	20.0 m
Summer Draft	6.8 m
Deadweight @ SummerDraft	5263 t
GT	5179
Deck Capacities	
Deck Load Capacity	3350 t
Deck Strength	10 t/m <sup>2</sup> - Aft of frame 30 5 t/m <sup>2</sup> - Fwd of frame 30
Free Deck Area	912 m <sup>2</sup>
Length x Width	57 x 16 m
Tank Capacities	
NLS	1799 m <sup>3</sup>
Brine / Mud	See NLS
Dry Bulk	340 m <sup>3</sup>
Fresh Water	694 m <sup>3</sup>
Fuel Total	1316 m <sup>3</sup>
Tank Capacities Details	Refer to Tank Capacities Table
Drilling Brine	1033 m <sup>3</sup>
Ship Fuel Dedicated	494 m <sup>3</sup>

Ship Fuel Total	494 m <sup>3</sup>
Cargo Fuel Dedicated	821 m <sup>3</sup>
Cargo Fuel Total	821 m <sup>3</sup>
Ballast Water	1145 m <sup>3</sup>
Drill Water	382 m <sup>3</sup>
Propulsion	
Main Generator	4 x MAN 6L27/38 each 1980 kW = 7920 kW (10616 bHP) driving Hyundai generators each 1900 ekW
Propulsion Thruster	2 x 2500 kW / 3351 bHP GE Electric Inovelis POD azimuth thrusters
Thruster	3 x Brunvoll bow tunnel 965 kW / 1294 bHP
Deck Equipment	
Capstans	2 x RRM electric driven Duty on drum 1st layer 10 t @ 0-15 m/min Light line speed 0-30 m/min
Tugger Winches	2 x RRM electric driven portable controlled. Storage capacity 240 m of 20 mm wire. Duty on drum 1st layer 10 t @ 0-20 m/min Light line speed 0-60 m/min
Provision Crane	1 x Heila Electric Hydraulic Knuckle Boom Capacity 5 t @ 15 m
Performance & Economy	
Economical Speed	Approx. 10.5 m <sup>3</sup> /day @ 10 kts Approx. 12.2 m <sup>3</sup> /day @ 12 kts
DP<20%	Approx. 5 m <sup>3</sup> /day
DP>35%	Approx. 7.2 m <sup>3</sup> /day
Standby in Field	Approx. 3.5 m <sup>3</sup> /day
Standby in Port	Approx. 2.5 m <sup>3</sup> /day

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Note	Performance & Economy figures are given at mean vessel draft of 6.0 m (3900 t deadweight) & Beaufort Scale 2
<b>Dynamic Positioning System</b>	
Type	GE C-Series DPS-21 Duplex DP with an Independent Joystick back-up system
Reference Systems	2 x Veripos LiD6 DGNSS 1 x CyScan 1 x RadaScan (Interface available for future installation: HPR)
Motion Reference Units	3 x Gyro Tokimec 2 x Wind Sensor Gill 3 x SMC IMU VRUs
<b>Rescue Boat</b>	
1. 1 x MP 660 Springer, 10 person, SOLAS Type Approved FRC with inboard diesel waterjet. 2. 2 x Lifeboat 38 person.	
<b>Accommodation</b>	
Person Capacity	Total 37 15 x 1man cabins 3 x 2man cabins (Excluding hospital) 4 x 4man cabins

**Tank Capacities Table**

L Class Tank Capacities @ 100%								
Tank	Volume	WB	FW	Ship's FO	Cargo FO	NLS	DW	Drilling Brine
1 Forepeak WB	173.975	173.975						
2P Lower FW	66.499		66.499					
2S Lower FW	66.499		66.499					
3P Upper FW	88.885		88.885					
3S Upper FW	88.885		88.885					
4P DB WB	57.392	57.392						
4S DB WB	60.249	60.249						
5P FW Tk	146.437		146.437					
5S FW Tk	146.437		146.437					
10P DB FW	45.198		45.198					
10S DB FW	45.198		45.198					
19P Ship's FO	32.587			32.587				
19S Ship's FO	32.587			32.587				
20P FO Settling	34.186			34.186				
20S FO Settling	34.186			34.186				
21 Anti-Roll WB	190.459	190.459						
22 Anti-Roll WB	190.459	190.459						
23P 1P NLS	182.54					182.54		
23S - 1S NLS	182.54					182.54		
24P DB DW	63.021						63.021	
24S DB DW	63.021						63.021	
25P 2P NLS	221.682					221.682		
25S 2S NLS	221.682					221.682		
26P 3P NLS	156.481					156.481		
26S 3S NLS	156.481					156.481		
27P 4P NLS	208.642					208.642		
27S 4S NLS	208.642					208.642		
28P DB WB	58.173	58.173						
28S DB WB	58.173	58.173						
29P 5P NLS	130.401					130.401		
29S 5S NLS	130.401					130.401		
30P Drilling Brine	164.676							164.676
30S Drilling Brine	169.522							169.522
31P DB DW	49.572						49.572	
31S DB DW	49.572						49.572	
32P DB DW	30.545						30.545	
32S DB DW	30.232						30.232	
38P Ship's FO	180.302			180.302				
38S Ship's FO	180.302			180.302				
38C Drilling Brine	74.36							74.36
40P DB DW	49.094						49.094	
40S DB DW	47.897						47.897	
42P Drilling Brine	253.753							253.753
42C Drilling Brine	117.821							117.821
42S Drilling Brine	253.753							253.753
43P DB WB	44.772	44.772						
43S DB WB	44.772	44.772						
44P Cargo FO	221.612				221.612			
44C Cargo FO	110.603				110.603			
44S Cargo FO	221.612				221.612			
45P DB WB	27.176	27.176						
45S DB WB	27.176	27.176						
46P Cargo FO	98.31				98.31			
46C Cargo FO	71.001				71.001			
46S Cargo FO	98.31				98.31			
47P Wing WB	42.198	42.198						
47C DB WB	51.097	51.097						
47S Wing WB	42.198	42.198						
48P WB	38.658	38.658						
48S WB	38.658	38.658						
Dedicated Tanks:	@ 100%	1145.585	694.038	494.15	821.448	1799.492	382.954	1033.885
With Multiuse Tanks:	@ 100%							
		WB	FW	Ship's FO	Cargo FO	NLS	DW	Drilling Brine
Bulk Capacity of 340.8 m <sup>3</sup> in five Bulk / FW tanks								

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