



Anchor Handling Tug Supply Vessels - Pacific Vanguard

Designed with a deadweight capacity of over 2,300 tonnes and a fuel efficient power plant sufficient to give 120-tonne Bollard Pull, the V Class vessels are versatile. They are capable of anchor handling operations for pipe-laying, semi sub rigs with both wire and chain configurations, barge and rig towages, barge handling, salvage assistance and emergency towing as well as ROV operations. These attributes position them perfectly to tow a variety of rigs and deliver great efficiency in supply mode. The V Class is equipped with the latest in Dynamic Positioning (DP) capability and FiFi technology.

The V Class vessels are:

Pacific Vahalla	Pacific Victory	Pacific Vixen
Pacific Valkyrie	Pacific Vigilance	Pacific Vulcan
Pacific Valour	Pacific Vigour	
Pacific Vanguard	Pacific Viper	

Top Features

1. Full DP2 classification.
2. Large deadweight for cargo.
3. Good station keeping during operations.
4. Latest FiFi Technology.

Key Specifications

- Bollard Pull - 122.31 t
- Free Deck Area - 416 m²
- Brake Horsepower - 8807 bHP
- Winch Line Pull - 255 t



General Information	
Vessel Name	Pacific Vanguard
Built	Labroy shipyard, Batam, March 2008
Flag	Singapore
Call Sign	9V6792
IMO No.	9361665
Classification	
Class Notation	DNV-GL +1A Fire fighter(I) Offshore service vessel(Anchor handling, Towing) DYNPOS(AUTR) EO
Dimensions	
Length (LOA)	66.0 m
Beam	16.0 m
Summer Draft	6.2 m
Deadweight @ SummerDraft	2499 t
GT	2147
Deck Capacities	
Deck Load Capacity	870 t
Deck Strength	5 t/m ² - General deck 10 t/m ² - Aft AH deck
Free Deck Area	416 m ²
Length x Width	32.5 x 12.8 m
Tank Capacities	
NLS	See brine/mud
Brine / Mud	589 m ³ (In brine/mud tanks)
Drill / Ballast Water	931 m ³ (Multi usage tanks, dedicated 736 m ³)
Dry Bulk	185 m ³ (in 4 tanks)
Fresh Water	455 m ³
Fuel Dedicated	778 m ³
Fuel Total	1562 m ³ (Incl. multi use tanks)

Tank Capacities Details	Refer to Tank Capacities Table
Drilling Brine	See brine/mud
Ballast Water	931 m ³ (Multi usage tanks, dedicated 736 m ³)
Drill Water	931 m ³ (Multi usage tanks, dedicated 736 m ³)
Propulsion / Bollard Pull	
Main Engines	2 x MAN 9L27/38 each 3285 kW = 6570 kW (8807 bHP) 2 x CPP propellers in high efficiency nozzles, with Hi-lift flap rudders
Thrusters	2 x BrunVoll bow thruster each 600 kW / 804 bHP 2 x BrunVoll stern thruster each 600 kW / 804 bHP
Bollard Pull	122.31 t @ 100% MCR
Deck Equipment	
Towing / Working Winch	1 x Tow winch 255 t 1st layer @ 0-11.4 m/min. Wire capacity 1500 m x 71 mm dia.
Anchor Handling Winch	1 x AH winch 255 t 1st layer @ 0-11.4 m/min Wire capacity 1500 m x 71 mm dia.
Chain Lockers	1 x 195 m ³ Chain capacity of: 2400 m 76 mm chain or 2000 m 84 mm chain
Towing Pins	4 x for ships with BP up to 160 t
Shark Jaws	2 x for wire with MBL up to 300 t
Stern Roller	RRM single drum with diameter 2.0 m x length 5.0 m @ 400 t MWL
Capstans	2 x Hydrakraft 16 t (warping head) 10 t (wire drum)
Tugger Winches	2 x Hydrakraft 10 t

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Provision Crane	1 x electric hydraulic knuckle boom Capacity 5 t @ 13 m
Chain Gypsies	1 x 76 mm & 1 x 84 mm mounted on work drum
Performance & Economy	
Economical Speed	Approx. 15 m ³ @ 10 kts
DP<20%	Approx. 11-13 m ³ /day
DP>35%	Approx. 15 m ³ /day
Standby in Field	Approx. 4.9 m ³ /day @ 1-4kts with 1 ME Approx. 10 m ³ /day @ 1-4kts with 2 Mes
Standby in Port	Approx. 1.3 m ³ /day
Note	Performance & Economy figures given at mean vessel draft of 5.5 m (1825 t deadweight) & Beaufort Scale 2
Dynamic Positioning System	
Type	GE Energy C - Series DPS-21 Duplex DP System with Independent Joystick back-up system (IJS)
Reference Systems	2 x Sonardyne HPR prepared 2 x Veripos DGPS 1 x Cyscan Guidance
Motion Reference Units	3 x Tokyo Keiki TG8000 3 x Gill Wind Observer II UltraSonic Type 1 x VRU Watson & 2 x VRU TTS DMS
Rescue Boat	
1. 1 x Maritime Partner MP660 Springer, 10 person, SOLAS approved FRB with inboard diesel waterjet.	
Accommodation	
Person Capacity	Total 32 8 x 1man cabin 4 x 2man cabins (Including hospital) 4 x 4man cabins

Tank Capacities Table

V Class Tank Capacities @ 100%							
Tank	Volume	WB/DW	FW	FO	Brine	Mud	DMA
1 Forepeak	108.27	108.27					
2 DB/Wing Tk 1P	55.26		55.26				
3 DB/Wing Tk 1S	75.95		75.95				
4 DB/Wing Tk 2P	86.52		86.52				
5 DB/Wing Tk 2S	86.52		86.52				
6 DB/Wing Tk 3P	128.55			128.55			
7 DB Tk 3S	74.72			74.72			
14 Wing Tk S - FO Settling	41.02			41.02			
21 Wing Tk P - FO Daily Service	34.95			34.95			
22 Wing Tk S - FO Daily Service	34.95			34.95			
24 Rig Chain Locker P & S	195.55	195.55		195.55			
25 DB/Wing Tk 4P	106.58			106.58			
26 DB Tk 4C	42.86			42.86			
27 DB/Wing Tk 4S	106.58			106.58			
28 DB/Wing Tk 5P	103.7			103.7			
29 DB Tk 5C	54.31	54.31					
30 DB/Wing Tk 5S	103.7			103.7			
32 Mud Tk 1P	77.44			77.44	77.44	77.44	77.44
33 Mud Tk 1S	77.44			77.44	77.44	77.44	77.44
34 Mud Tk 2P	77.44			77.44	77.44	77.44	77.44
35 Mud Tk 2S	77.44			77.44	77.44	77.44	77.44
36 Mud Tk 3P	77.44			77.44	77.44	77.44	77.44
37 Mud Tk 3S	77.44			77.44	77.44	77.44	77.44
38 Brine Tk 1P	63.8			63.8	63.8	63.8	63.8
39 Brine Tk 1S	60.79			60.79	60.79	60.79	60.79
40 Lower Deep Tk 6P	76.37		76.37				
41 Lower Deep Tk 6S	74.49		74.49				
42 Upper Deep Tk 6P	131.22(0)	131.22(0)					
43 Upper Deep Tk 6S	131.22(0)	131.22(0)					
44 Stability Tank 1	173.12	173.12					
45 Aft Peak P	68.71	68.71					
46 Aft Peak S	68.71	68.71					
Dedicated Tanks:	@ 100%	735.56(473.12)	455.11	777.61			
With Multiuse Tanks:	@ 100%	931.11(668.67)		1562.39	589.23	589.23	589.23
		WB/DW	FW	FO	Brine	Mud	DMA
Bulk Capacity of 185 m³ in four dedicated tanks							
Pacific Victory has been converted to carry 103 m ³ of methanol in two dedicated tanks. Figures in () denote Pacific Victory's modified tank capacities.							
24 RCL P & S cannot be used for chain & product at the same time							