

MARINE TORQUE TALK[®]

What's happening on the water from ...

OCEAN ADVENTURE

VOLVO PENTA

Looking For That Eye Watering Adventure

By Keith Ingram

Ocean Adventure was designed to give passengers a high speed open boat experience. A ride will offer tourists the chance to experience the thrill and exhilaration of the fastest boat ride crossing the Bay of Islands to the Hole in the Rock at Cape Brett.



It is the prospect of this one-and-a-half hour journey out of the bay into open coastal water with all the salt laden wind and spray that attracts many tourist for this once in a life time experience.

Originally built in 1995, the Wild Cat Marine Cougar Cat-designed vessel has suffered a chequered history, at least during the first half of its life. It might be tempting to blame the boat, but in reality, whenever anyone breaks into new territory – especially where speed and tourist adventure thrills comes into play, mixed with the unpredictability of Mother Nature – the margins for human error become tight. Such is the recorded history of the Bay of Islands vessel *Mack Attack*.

So, when the vessel came up for disposal, the tourist company Explore Limited recognised the exciting aspects of the vessel as a tourist adventure high speed boat. It offers thrill-seekers and adrenalin junkies a holiday highlight with a difference.

They recognised she had potential to be a great vessel. The challenge was to make her safer, and to eliminate identified faults.

To correct the known faults identified in the old vessel, and a number of others as the vessel was showing signs of her age and use, would require a significant refit and repower.

Plus, to be able to operate again as a tourist adventure vessel, she would have to meet the new Maritime NZ survey and MOSS standards – including the high-speed code for adventure vessels. This new code and its associated H&S responsibilities on operators was a significant change. It's led to some operators exiting the high-speed adventure market.

THE BOAT

With an overall length of 12m, waterline length of 10m and a beam of 4m the hand-laid 15mm GRP hull was in excellent condition – requiring only to be cleaned and painted throughout.

VOLVO POWER AND Q-MARINE DRIVES

Ocean Adventure is powered by twin Volvo Penta D11- 625hp marine diesels coupled to twin ZF305-3A-E 1.51:1 reduction gear boxes. The engines have a commercial rating of '4' and comply with the latest IMO Tier II and US EPA Tier III emission standards.

This power plant is coupled to twin Q-Marine Q-SPD QSD125 surface drive units complete with the custom-designed 26 inch five-bladed surface piercing propellers.

The units have an integrated exhaust system and incorporate a full power steering system to the twin rudders on each drive. The twin rudders offer predictably positive steering and tracking at all speeds, which for a high-speed craft of this nature is vitally important.

Although she's capable of speeds up to a scary 50 knots, it is intended that *Ocean Adventure* will only operate at a service speed of 35 knots in sea conditions up to 1.5m swells. Conditions above these parameters will dictate the operating speeds on the day – in keeping with the new operating manual and instructions for Skippers.

Specifications

LOA:	12m
Beam:	4m
Draft: at rest	500mm
Design:	Modified Cougar Cat
Refit:	Explore Limited
Power:	Twin Volvo Penta D11-625HP Marine Diesels
Propulsion:	Twin Q-Marine Q-SPD QSD125 Surface Drives
Service speed:	35 knots



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INTEGRITY 380

An Integrity 380 Sedan, *Marvic* is the first of this latest version in New Zealand. Integrity Motor Yachts is an Australian company, now part of the Whitehaven Group, that builds traditional trawler-style yachts in China and a range of luxury powerboats in Taiwan and Taipei.

Marvic is a sedan-style launch with a full-beam cabin top that covers the cockpit and walkaround side decks. Wrap-around bulwarks (with scuppers) and railings are family- and pet-friendly.

The 380's a displacement vessel with a full-length keel that protects the propeller and rudder. A 225hp is the standard powerplant, but John, *Marvic*'s owner, specified a Volvo Penta 330hp for his boat. The Volvo offers electronic throttle and shift and Slow Mode, which allows the vessel to trickle along at three knots – very important when you are as keen on trolling for trout as is John.



The development of the new marina was the new boat catalyst for John. "I'd have never got her in and out of the old marina, but once the new one opened, I decided it was a good time to upgrade to a larger vessel," says John, replacing an 8m launch he'd kept at Motuoapa for many years.

The Volvo's extra horses make no difference to the Integrity's top speed, which is around 11 knots, but the engine is nicely under-stressed when cruising at 8 knots. And cruising is what the 380 is all about – in considerable comfort.

While trickling along in Slow Mode waiting for a fish to bite, you can enjoy the lake scenery from the comfort and shelter of the cockpit. In winter, cockpit covers fully enclose the space, turning it into a cosy extension of the saloon, but on a brilliant spring day like we enjoyed, the fresh air and sunshine was welcome and we left the covers off.

As we exited the marina, the super-clear waters of Stump Bay revealed shallow, weed-covered banks either side of the marked channel. In a boat of this size, some care is required to stay in the channel. But helming *Marvic* is stress-free. Lewmar stern and bow thrusters work with Volvo Penta's Slow Mode to take any anxiety out of handling the boat at close quarters. *Marvic* fits a 12m berth – just – but berthing her was easy and the helmsman's side door is handy dockside.

At eight knots the fuel burn is very reasonable 24lph; push the speed up to 11 knots and it ramps up, along with the noise levels, though the 380 is a quiet runner. On the other hand, at trolling speed there's barely any noise from the exhaust and fuel consumption is miserly.

There's ample room on the two-tier dash for instruments, electronics and communications equipment. *Marvic* is quite well-specced. A Raymarine MFD occupies centre-stage with a standard Volvo Penta digital display, thruster, Marinco spotlight, Muir capstan, chain counter, genset and various other controls, sharing space with analogue gauges, switches, the VHF radio, Fusion stereo, 12V and USB outlets, tank level indicator and the Raymarine autopilot.

The Integrity 380 is perfect for relaxed cruising where the journey (or the fishing) is as important as the destination.

Specifications

LOA	11.5m
Beam	4.14m
Draft	1.15m
Displacement	11 tonnes (heavy)
Fuel capacity	1,135 litres
Water	750 litres
Max Speed	11.0 knots
Engine	Volvo-Penta D6-330hp
Drive train	Conventional shaft



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- Applies to NZ & Pacific Islands only
- Standard Volvo Penta Limited Warranty Conditions and Extended Coverage Conditions Apply (Policy statements available)

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ASTRA

Astra is a Vindex 3000 with a gross weight of 4.6 tonnes, with 500 litres fuel capacity and carrying 250 litres water.

The owners upgraded from a 1990's KAD42 230hp to a new D4 260hp – more or less the same 3.7 litre capacity but a change from 6 cylinders to a more compact 4 cylinder arrangement. The extra access room all around the motor is now obvious with this design. The upgrade included a robust new stern leg, electronic helm controls and hydraulic steering. Performance with the new motor is great, the boat jumps out onto the plane without any hesitation, and no smoke or fumes, particularly at start-up. No supercharger whine like the old model. It is light on fuel at 1.9 l/nmile at cruising speed, maximum speed 27 knots but our preferred speed is 20 knots at 3150 revs using 38 litres/hour, which works well.



The owners commented that Grant from Allvo Marine , Half Moon Bay, did a great job managing the project and a particular mention to Scott who put in the bulk of the man hours to produce such a tidy installation, with all the nice finishing touches and everything tidily in its place. Credit also due to Simon's team at HMB Electrical for another professional job and to Joe at The Boat Builders for the tricky structural work, with additional help from both Boatspray and Steeliotts.

The new motor has given the owners so much more confidence and they have put in 72 engine hours in the first two months, venturing twice to Great Barrier Island and a 10 day Easter trip to Whitianga.

The owners wanted to future proof their boat for later retirement and they think they have both the dependability and economy they need to do this with the new installation.

Specifications

LOA	10.5m
Beam	3.6m
Fuel capacity	500 litres
Water	250 litres
Test Load	3 POB, 100% fuel and water
Max Speed	27.0 knots
Engine	Volvo-Penta D4-260/DP
Configuration	3.7 lt, Inline 4
HP @ RPM	260 @ 3500
Max torque @ rpm	615Nm @ 2500
Ratio	1.85:1
Propeller size	G2 Duoprop



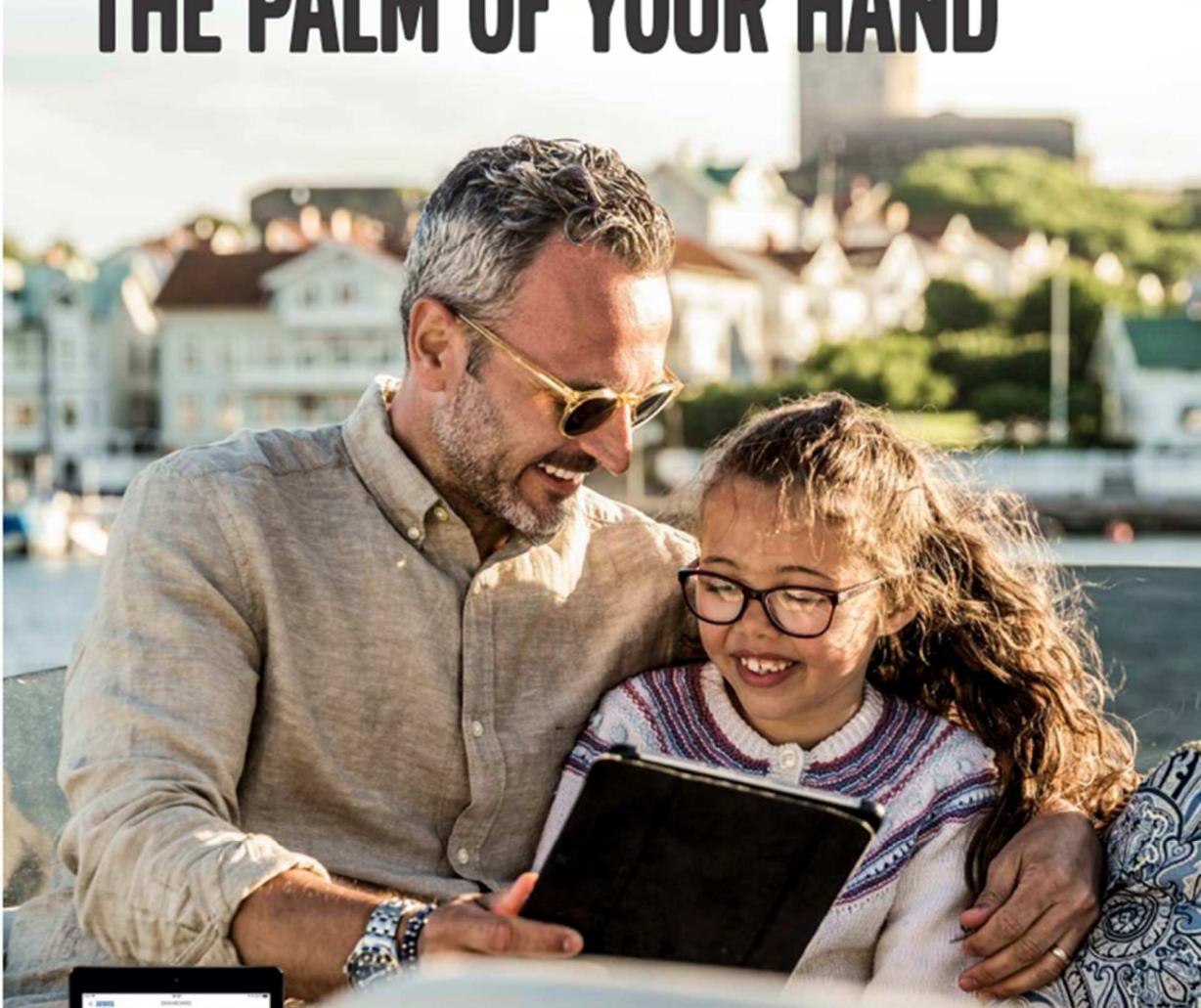
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LEJEND

"Lejend", an older Rayglass 850 Legend was powered by an old tired Yanmar diesel.

The customer made the decision to remove the diesel and install a Volvo Penta V8-300, along with new duo prop stern drive.

The customer is extremely satisfied by the performance and low noise levels compared to the diesel.



Specifications:

LOA:	8.7m
Beam:	2.5m
Deadrise:	23 deg
Weight:	2800 kg (approx.)
Max Speed:	34 knots
Cruising Speed:	21 - 25 knots
Fuel Capacity:	300 lts
Water Capacity:	80 lts
Test Load:	2 POB, 100% fuel & water
Engine Make:	Volvo Penta V8-300
Configuration:	5.3 lt, V8
HP @ RPM	300 @ 5800
Max torque @ rpm	510 @ 4000
Transmission type:	DPS-B
Ratio:	2.32:1
Propeller Size:	FH3 Duoprop

RPM	Litres Per Hour	Speed (Knots)
1000	4.9 L/H	4.7 Kn
1500	6.9 L/H	6.5 Kn
2000	10 L/H	8.0 Kn
2500	15 L/H	9.5 Kn
3000	21 L/H	13.3 Kn
3500	28 L/H	17.2 Kn
4000	34 L/H	21.8 Kn
4500	42 L/H	25.2 Kn
5000	55 L/H	28.8 Kn
5300	62 L/H	31 Kn
5600	68 L/H	34 Kn
5900	87 L/H	35 Kn



Seafarer Marine
11 Market Street
Picton
Phone: 03 573-8911

2019 WHITE POINTER FISHING COMPETITION

White Pointer Boats held their annual fishing tournament from 31st Jan to 2nd Feb 2019 at Waihau Bay.

There were thirty three boats participating and eighteen of them were powered by Volvo Penta engines.



The overall winning team was the crew of "Outcast" a 750 White Pointer Sports Cruiser, who won the Reel Rodz prize, which was donated by Volpower NZ Limited.



The heaviest fish was a 263kg blue marlin, caught by Murray Dolman, ("Mudguard"), the owner of "Kingfisher" a 800 Custom Cruiser.

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Volpower NZ Ltd would like to introduce and welcome Paula and Sam Wilson of "Progressive Field Services" from Dunedin into the Volvo Penta network.

Paula and Sam have joined our Volvo Penta team as an Industrial and Marine dealer from Timaru south.

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