

Autumn 2011

MARINE TORQUE TALK

What's happening on the water from ...

VOLVO PENTA

Cape Egmont Sea Rescue

Cape Egmont, under the shadow of Mt Taranaki, is a small farming community with some of the finest dairy farms in the country. It also has a rugged coastline that offers no relief to seafarers from any weather pattern, especially those from the north through to the sou'east.

In fact the flight path for helicopters servicing the offshore rigs makes this the busiest low-altitude flying zone over water in New Zealand. With some 40 people on a rig at any time there was a real need to have a ready-response rescue craft available at all times in case a rig needed emergency evacuation.

The local farmers, many of whom are also keen fishers, have in the local "can do" spirit, developed boating clubs with unique launching facilities to ensure there was safe boating, hence the birth of the Cape Egmont Boating Club and the sea rescue centre.

Twenty minutes down the coast, the Oponaki Boating Club was also growing and offered its support. As the boats got bigger and were able to travel over the horizon, the need for a capable sea rescue service increased.



Specifications:

Length: 10.8m

Beam: 3.5m

Draft: 730mm

Deadweight: 7.5 tonnes

Power: 2 x D4-260 Volvo Penta marine diesels

Propulsion: 2x Volvo Penta DPH Duo-prop sterndrives

Fuel: 900 litres

Top speed: 38 knots

Service speed: 26 knots

Designer: Angelo Lavranos

Builder: Bladerunner Boats

Engines supplied and tested by: West Coast Marine
3 Cody Place
New Plymouth
Ph 06-759-0939

Any new vessel needed to be in the 10m range and able to carry 20 passengers with good seakeeping ability in all but extreme conditions, along with a quick turn of speed. Above all, she needed to have twin engines and be housed on her own trailer.

TSB Sea Rescue was launched in Auckland at Onehunga for sea trials before making passage to Cape Egmont.

She is 10.8m long with a 3.5m beam and an expected draft when laden of 730mm.

Designed by Angelo Lavanos and built by Bladerunner Boats in Kumeu, *TSB Sea Rescue* has a voluminous, load-bearing hull with a deep forefoot.

Twin 194kW D4-260 Volvo Penta, supercharged and turbocharged marine diesels drive Volvo Penta DPH Duo-prop stern legs. These engines were supplied and tested by West Coast Marine and were chosen because of their proven ability in the commercial world. They offer a wide power band with long legs and good fuel economy. Another major benefit is the counter-rotating propellers can chop seaweed.

The Volvo Penta's have a top speed of 38 knots, better than the design speed of 35 knots. At a more leisurely service speed of 26 knots, her 900 litres of diesel provide an effective range of 400 miles, enabling her to range from Raglan to Nelson. During engine trials, with full tanks and eight people on board at 28 knots, both engines burnt 68 litres per hour or 2.44 litres per mile.

To ensure any sound from these puppies doesn't rise above a whisper, the engine bay is completely protected by Pyrotek noise control insulation.

After her sea trials were over and they had completed a preliminary look at the Manukau bar, Cape Egmont Rescue was prepared for the delivery trip. The bar crossing was a breeze, and any trepidations were quickly left behind until a heavy bank of dense fog quickly rolled in.

The 5.5 hour pea-soup trip to the cape and home proved to be an excellent training ground, as the crew quickly got to grips with the new electronics.

The boys were really impressed with the performance and reliability, straight out of the box not a problem with the engines. A big ask for a boat that was brand new with not too many sea trial hours, to go straight over the Manukau bar and travel home to Taranaki.

They were equally impressed with how quiet the engines were, with a cruising speed of 28-30 knots and a top speed of round 38 knots, which is good for a 7 ton vessel.

ULTIMATE PURSUIT

Ultimate Pursuit, a 12 metre alloy power cat has been re-powered at Pacific Coast Marine in Whitianga.

The existing 180hp Fords had reached the end of their life and the Volvo Penta D4-180's were a perfect replacement.

The D4 delivers its power at the same engine speed as the Ford (180hp @2800 rpm). This meant that the existing props and transmissions could be retained.

Smaller in every dimension and much shorter than the existing engines. This allowed the mounting of fire and refrigeration pumps in front of the D4 giving better service access. This combined with all filters being accessible from the top of the engine makes the D4 a good option for tight multi-hull engine rooms.

Before the repower, cruise speed was down at 13knots with WOT delivering 17-18knots. On initial sea trials with D4's, Ultimate Pursuit cruised @ 18knots and reached 22knots WOT. Cockpit life is more pleasurable with no fumes and very low noise level; some of the credit must go to the power flow water lift mufflers. Ultimate Pursuit's owner is pleased with the fuel consumption, with the pair of D4-180's having a combined fuel usage of 1.6 l/nm at trolling speed, 2.83l/nm cruising @ 16kn and 3.2 l/nm @20kn. This fuel saving also has the benefit of giving Ultimate Pursuit an increased range and cruise speed - a must for any charter vessel today.



Vessel Data:

Design:	Allen Wright Power Cat
Engine:	2 x Volvo Penta D4-180
LOA	11.5
LWL	11.3
BOA	4.6
BWL	4.4
Draft	.9
Disp	10,000Kg
Fuel	1000ltr
Water	550ltr



John Booker
Pacific Coast Marine & Diesel Ltd
29 Bryce Street
Whitianga
Tel: 07 866 0551
Fax: 07 866 0558

POWER & PASSION REPOWER

Power & Passion is a 9.8 metre Reflections 980 that is used for pleasure cruising and fishing. It initially had a KAD44 260hp diesel stern drive installed.

The owner felt that with the amount of gear on board for fishing and diving the boat was not performing quite the way he wanted it to, so he thought it was a good time to repower. After speaking to Peter Jacobs, of Ovlov Marine in Westhaven, he decided on a D4-300hp stern drive. The owner was pleased with the result, the top speed went from 21 to 27 knots.



Engine

Volvo Penta D4-300 / DPH stern drive
300hp @ 3500rpm
3.7lt, Inline 4 cylinder
Engine and drive weight 663kg

Boat builder:	McDell Marine
Type of boat:	Daycruiser
LOA:	9.8 m
LWL :	7.68 m
Beam over all:	3.48 m
Draft:	0.6mtr
Displacement as tested:	5000 kg
Fuel Tank Volume:	450 l

Ovlov Marine
142 Beaumont Street
Westhaven, Auckland Central
Ph 09-377-4285

TOI TOI

Toi Toi started life as an 11.3m Ron Given sailing cat in Aaron Beattie's Lifestyle Yachts Yard near Ngatea. Sadly, her original owners ran out of money and had to abandon the project.

At the same time, Rob and Vicki Murray were looking for a family boat to complement their outdoor lifestyle.

When Rob first saw the partially-completed Toi Toi in Aaron Beattie's yard, he realised that it might be exactly what he wanted, so he set to work with designer Ron Given and Lifestyle Yachts to modify it to his requirements.

The decision to forgo sail for power wasn't easy, but the now 12.3m Toi Toi retains many of the characteristics of a Ron Given sailing cat, but with the convenience of diesel power and a surprising turn of speed.

Ron Given is responsible for Toi Toi's hull and structure. Lifestyle Boats, working with the owners, were responsible for the boat's interior layout and detailing.

Twin Volvo Penta D2-75HP diesel sail-drives, installed by Ovlov Marine, spin fixed 18" x 18" Bri-ski propellers. Sail-drives were a simple option, offering compact installation, good access within the hulls and to the legs. The legs can be serviced 'in the field' by driving the boat ashore at high tide and waiting for the tide to drop. Engines and starting batteries reside in each hull, along with two hot water cylinders (90 litres total), freshwater tanks (470 litres) and fuel (380 litres) for 38 hours continuous operation @10 knots.

The engines are readily accessible via hatches in the cockpit sole, with removable panels should any major work be required. Shallow draft and beaching keels mean the boat can be run aground without risking the legs or props. When the tide goes out, it is possible to service the legs, including changing the oil, checking or replacing seals, or cleaning marine growth, without the need to slip the boat.



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Engine Data

Speed and fuel as tested

RPM	Speed (knots)	Fuel Use (litres per nm)
1000	5.0	0.40
1500	7.1	0.71
2000	9.4	1.04
2500	12.2	1.38
3000	15.8	2.20

At idle in gear	1000rpm
Cruise 12 knots	2500rpm
Max 16 knots	3000rpm

Photos are courtesy of Mike Hunter, and the article courtesy of John Eichelsheim/Brett Patterson of Boating New Zealand

WHITE POINTER FISHING CONTEST



46 boats, 23 of which were powered by Volvo Penta engines, took part in the White Pointer 2011 Fishing Competition held at Waihou Bay, on 10-12 February 2011.

The Winning boat, "Cookie" and angler Ryan McElwee won the prize of a trip for four people to Samoa, for the catch of a 240kg blue marlin.



SOUND PROOFING



Volpower distribute affordable Pyrotek Noise Control products through our dealer network to provide sound proofing solutions for marine and industrial applications. To see samples contact your local Volvo Penta Dealer now.

FILTER FUNNELS



The Racor Filter Funnel range has been specially developed to remove free water and contaminants from petrol and diesel. Wherever jerry cans or general fuel transfer occurs, simply pour fuel into the funnel and the built in Teflon coated stainless steel filter will trap the free water in the funnel. These are a simple yet very effective method of pre filtering your fuel.

There are four convenient sizes to choose from.

RFF1C	flows 10.22 litres per minute
RFF3C	flows 14.76 litres per minute
RFF8C	flows 18.92 litres per minute
RFF15C	flows 56.78 litres per minute

If you require Racor filter funnels please contact your local Volvo Penta dealer.

NEW APPOINTMENT

We welcome a new member to the service department team, his name is Lovell Tabilin.



Lovell brings a strong warranty knowledge to the plate as he hails from a warranty background with GM that has seen him working in Saudi and other countries around the globe.

He had been working as a service tech for Ford up until joining us at Volpower.



2 YEAR WARRANTY ON ALL NEW VOLVO PENTA MARINE ENGINES

*Applies to non-commercial use only. Conditional on annual service by authorized Volvo Penta dealers.

VOLVO PENTA MARINE DEALER LIST

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- OPUA:** Lowes Marine Services. Paihia Ph 09-402-8375
- WHANGAREI:** Ray Roberts Marine. Whangarei Ph 09-438-3296
- MATAKANA:** Matakana Marine & Engineering Ltd. Matakana Ph 09-422-7822
- WHANGAPARAOA:** Seaquip Marine Services Limited. Whangaparaoa Ph 09-424-1260

AUCKLAND:

- Ovlov Marine Ltd.** Westhaven Ph 09-377-4285
- Ovlov Marine - Pine Harbour Limited.** Beachlands Ph 09-5365249
- Allvo Marine & Engineering Ltd.** Howick Ph 09-535-9189
- Bensemman Boating Centre Ltd.** Westpark Marina Ph 09-416 2190
- WHITIANGA:** Pacific Coast Marine & Diesel. Whitianga Ph 07-866-0551
- BAY OF PLENTY/WAIKATO:** Coastline Marine Limited. Tauranga Ph 07-574-9613

TAUPO: Fleet Marine Limited. Taupo Ph 07-378-8514

- NEW PLYMOUTH:** West Coast Marine. New Plymouth Ph 06-759-0939
- GISBORNE:** Harbourview Marine Ltd. Gisborne Ph 06-868-8686
- NAPIER:** Hawkes Bay Marine (2005) Ltd. Napier Ph 06-843-5000
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- CHRISTCHURCH:** Southern Viking Ltd. Christchurch Ph 03-348-8976
- WANAKA:** Torque Marine. Wanaka Ph 03-443-6404

FJI:

- NADI:** Yacht Help Fiji. Nadi Ph 679-675-0911-2

WEBSITE INFO: Visit our website for new and used engines and trans, parts, accessories, servicing etc. www.volvopenta.co.nz

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