

Spring 2010

MARINE TORQUE TALK

What's happening on the water from ...

VOLVO PENTA

COUGAR LINE PICTON

Twin D4-225/DP

Cougar Line Picton run a ferry service in the Queen Charlotte Sounds area.

Last year they entered into discussions about repowering one of their smaller ferries, "Cougar II". Cougar II was previously powered by Volvo Penta AD41's with stern drives (200hp @ 3800rpm). They had done 15000 hours, of great service, but decided to change whilst there was still some monetary value left on the old engines.

They decided to repower with the new D4-225's with DPH stern drives (225hp@3500rpm). Some modifications needed to be done to the hull as the hull was designed for jets and needed to be fared. The installation was completed on 18th June and sea-trials were conducted on the 29th June.

The overall improvement in performance and comfort was "astounding", said Fred and Johnny the skippers. They are all now fighting to drive that vessel, whereas previously they were reluctant to be the skipper.

The top end speed improved from 26 knots to 36 knots, with a 9.8% decrease in fuel consumption.



Boat Make:	Cougar Catamaran
LOA:	10.8 metres
LWL:	9.8 metres
Beam:	3.5 metres at chine
Hull conf:	Symmetrical, flat at transom
Displacement:	7000kg approx.
Test load:	9 POD, 500 lts fuel
Engine type:	2 x Volvo Penta D4-225
Engine HP:	225hp@3500rpm
Drive/Ratio:	Duo Prop DPH, 1.96:1 ratio
Propeller:	G5 Nibral

Volpower NZ Limited also wish to congratulate Cougar Line, on winning the NZ wide Water Taxi category, in the Rankers Traveller Voted Awards (which reflect the voice of the people that have recently travelled in New Zealand) for 2010. This is the second year running that they have managed to win this category, so it is quite an achievement.

REPOWER OF MARKLINE FOR MARINE ENGINEERING

A recent project for Marine Engineering Ltd was the repower of "Jasana" with a pair of D3-140 DPS engines. The 10 Metre Markline 1000 previously had AQAD31A engines with 280 DP drives which gave a top speed of 19.5 Knots. However, the new D3's pushed it up to 23 Knots.

The owner says "the boat is now a lot easier to handle with the new controls and power."

The boat is used in the Marlborough Sounds, for cruising and fishing.



Boat Make: Markline
LOA: 10 metres
Displacement: 6000kg approx.
Engine type: 2 x Volvo Penta D3-140
Engine HP: 140 HP @ 4000 rpm
Propeller: D2



Marine Engineering Ltd
Beach Road
Picton
Ph 03-573-6477

PERSPECTIVE

In the nearly twenty years that Shayne has owned his Mercedes clipper 10.8 the MD11 engine and sail drive have given him great service.

Despite his excellent maintenance, internal corrosion meant that either an extensive re-build or re-power was needed. Given the engine was at least 30 years old a new engine was by far the best option. Investigation revealed that the new sail drive would fit onto the existing bed. Drawings were available for adaptor plates to match the new engine to the existing bed, which made the whole installation very straight forward.

We got the old engine out during the week so that Shayne could be let loose with the paint brush and the flowcoat over the weekend. Shayne did a great job and contributed to a very tidy installation of the D1-30F.

We repitched the existing prop and achieved 8.1 knots on the sea trial, transforming the vessel. Shayne is "over the moon" with the result and is looking forward to getting in some serious cruising this summer.



Ralph Kearton
Seaquip Marine Services Limited
Gulf Harbour Marina
Whangaparaoa
Phone 09-4241260

NEW VOLVO PENTA D13 MARINE COMMERCIAL

Volvo Penta is introducing the D13, a new inboard marine diesel for marine commercial applications. The D13 is available in 700 hp and 800 hp versions and delivers impressive performance with low fuel consumption and minimal exhaust emissions. It is suitable for fast patrol boats in high speed operations as well as for high-performance work boats requiring low life-cycle costs.



Massive low-end torque

One feature of Volvo Penta's inboard diesels is their high torque from low rpm, a prerequisite for rapid and safe acceleration. The new D13 is equipped with Volvo Penta's highly efficient twin-entry turbo with pulse charging – the power in each exhaust pulse provides the pulse pressure. The D13-800 features dual-stage turbo technology which helps produce a torque of over 2900 Nm even at 800 rpm. This gives superb acceleration with virtually no sign of smoke.

Another important feature is that the D13 retains a very high torque throughout its speed range. This makes it possible to maintain good operating speed even with a heavily loaded boat or in rough seas.

Low fuel consumption, minimum emissions

EMS 2, the engine control system developed by Volvo, regulates fuel injection and monitors engine conditions. The system controls the unit injectors, one per cylinder, which operate at a pressure of as much as 2000 bar and atomize the fuel for optimum combustion. The result of this efficient combustion is lower fuel consumption for the D13 than the previous model, at the same power output.

The D13 is also very low on noxious emissions and particulates. All versions are certified to the IMO NOx Tier 2, EU IWW, and US EPA Tier 2 requirements. They also meet the upcoming US EPA Tier 3 emission regulations – the world's most stringent.

Quick shift and low speed

The D13 is available with quick-shift reverse gear that provides very fast but soft shifting with a minimum delay. The reverse gear also comes with a low-speed function as standard, which means that the speed when idling drops by 50%. Low-speed mode is available as an option for all reverse gears.

High quality

The D13-800 and D13-700 have the same robust basic architecture as the Volvo D9, D11, and D16 inline-6 diesel engine platform. The platform features a robust block design, wet liners, rear-end transmission, ladder frame and a single cylinder head with overhead camshaft operating 4 valves per cylinder and the injectors. This contributes to smooth running, high reliability and long-term durability.

Technical Data D13-700 MC

Engine designation	D13-700
No. of cylinders and configuration	in-line 6
Method of operation	4-stroke, direct-injected, turbocharged diesel engine with charge air cooler
Bore/stroke, mm (in.)	131/158 (5.16/6.22)
Displacement, l (in3)	12.78 (779.7)
Compression ratio	16.5:1
Dry weight bobtail, kg (lb)	1450 (3197)
Crankshaft power, kW (hp) @ 2300 rpm	515 (700)
Max. torque, Nm (lbf.ft) @ 1200 rpm	2570 (1896)
Rating	3

Technical Data D13-800 MC

Engine designation	D13-800
No. of cylinders and configuration	in-line 6
Method of operation	4-stroke, direct-injected, turbocharged diesel engine with charge air cooler
Bore/stroke, mm (in.)	131/158 (5.16/6.22)
Displacement, l (in3)	12.78 (779.7)
Compression ratio	16.5:1
Dry weight bobtail, kg (lb)	1560 (3439)
Crankshaft power, kW (hp) @ 2300 rpm	588 (800)
Max. torque, Nm (lbf.ft) @ 800 rpm	2936 (2166)
Rating	4

NEW APPOINTMENTS AT VOLPOWER NZ LIMITED



Craig Kerridge (pictured on the left) joined Volpower in July, in the role of Product and Technical Support (replacing Chris Stansfield).

We are pleased to welcome Craig to our team. Craig's background stems from large naval engines through to smaller pleasure units, in more recent times with General Marine Services.

Rob Van de Pol (pictured on the right) has recently joined Volpower and he has adapted well to the role of Warehouse/Warranty Administrator. Rob replaces Brody McNeil who has gone to work for one of Volpower's marine dealerships, Allvo Marine, at Half Moon Bay.

We welcome Rob, who brings a wealth of knowledge and experience in logistics to Volpower.



KP MARINE



Kapiti Propeller & Marine are having a change of name and location. After 6 years in Ulric Street, in Plimmerton, they have moved down the road to purpose built premises on Plimmerton Drive.

With the move comes a name change to KP Marine. As KP Marine's customer base covers the lower North Island it was logical to cut out the Kapiti reference. Over the years the company's emphasis on propellers has lessened and they now support a wider range of the marine industry thus in the new name the emphasis is on marine.

Kapiti Propeller and Marine have been around for 40 years firstly based at Paraparaumu Beach. Rob Saul and Phil Smith, old school mates, and Gavin Brown have owned and operated it for the last 15 years. They moved to Plimmerton to be closer to where the work is at Mana Marina. They have endeavoured to meet the demand of customers and the move to new premises is a result of continual demand, especially trailer craft. There will be larger workshops which will satisfy work on larger engines too.

For further information on KP Marine, visit www.kpmarine.co.nz.

VOLPOWER CONFERENCE

The Volpower 2010 Marine Dealer Conference was held on 23rd September at the Waiheke Island Resort.

Congratulations to the Dealers listed below who were successful in achieving awards:

Sales Achievement Award Aquamatic Engines - Coastline Marine
Sales Achievement Award Inboard Engines - Coastline Marine
Sales Achievement Award Compact Engines - Ovlov Marine
Sales Achievement Award Petrol Engines - Seaquip Marine Services
Merit Award - Bensemenn Boating Centre
Merit Award - Lowes Marine



WhisperGen™ Heat & Power System

WhisperGen™ automatically and quietly manages your batteries and your hot water, starting and stopping without the need for human intervention.

The DC WhisperGen™ is a 70Amp(12V) or 35Amp (24V) battery charger that also produces 5.5kW of hot water.

This hot water can be used as part of your heating requirement and also to heat your water for domestic purposes (enough energy to heat 300 litres within 2½ hours).

At maximum output, diesel consumption is only 0.75litres per hour. Conversion of fuel to electricity and heat energy is greater than 90%, which means that the DC WhisperGen™ produces no visible exhaust fumes and no obvious smell even when running at full capacity.

The DC WhisperGen™ works well in conjunction with any other form of electrical or heating generation including solar heating, solar (Photo Voltaic), wind, another generator, or boiler.

Lightweight, compact, smart and very quiet.

To find out how to purchase contact: enquiry@volpower.co.nz



STRAIT MARINE

On the 20th of August, Phil and Julie-Ann Trowbridge proudly opened their new workshop and showroom in Wellington.

Strait Marine's new premises has spacious workshop facilities for servicing boats on the hardstand right outside the workshop door on the Seaview Marina. There is a large parts and motors showroom, as well as more office space and better staff facilities.

Julie-Ann manages the office administration while Phil runs the workshop and manages a team of two technicians and a parts person.

Phil sees the move as the realization of their long term ambition to provide better, more convenient service to owners of vessels in the Wellington region as well as those moored in the marina and trailer boats stored inside the adjoining secure compound.



Phil Trowbridge
Strait Marine Parts & Services
Unit 1/The Sea Centre
100 Port Road, Seaview Marina
Wellington



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

NEW ZEALAND:

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
Bensemenn 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
WANGANUI: Marine Services Wanganui Ltd. Wanganui Ph 06-345-6958
PORIRUA: KP Marine. Porirua Ph 04 233 6164
WELLINGTON: Strait Marine Parts & Services Limited.
Wellington Ph 04-568-8062
PICTON: Marine Engineering Ltd. Picton Ph 03-573-6477
PORT NELSON: Aimex Ltd. Port Nelson Ph 03-548-1439
KAIKOURA: Kaikoura Marine Services Ltd. Kaikoura Ph 03-319-5276
CHRISTCHURCH: Southern Viking Ltd. Christchurch Ph 03-348-8976
WANAKA: Torque Marine. Wanaka Ph 03-443-6404

FIJI:

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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