

A solitary Cat® 336 hydraulic excavator works to fend off the encroaching Indian Ocean



Harbour reconstruction works at Raa Meedhu Island

The Maldives may be every holiday maker's ultimate dream destination but for the Maldivians....the persistent threat of becoming an Atlantis exists.

The Maldivian Government realizes this and is proactively taking measures to ensure the Maldives stay above ground for years to come. Sturdy Cat equipment (from authorized Cat dealer, Tractors Singapore Limited), built to last, work relentlessly in salt water conditions to raise the embankment.



Land reclamation works at K Bolifushi Resort Development Project

In addition, the increase in demand for the safe anchorage of fishing and cargo vessels in the rural atolls of the

Maldives has activated the Government's plans for developmental projects to facilitate the social and economic growth of these communities.

Maldives Transport and Contracting Company Plc. (MTCC) is the only Class A certified marine contractor in the Republic of Maldives with the largest fleet of heavy earthmoving equipment.

MTCC's scope of works includes construction of harbours, land reclamation, shore protection, revetment works and related marine/building related construction. Its range of services, in addition to construction, comprises the provision of engineering and maintenance support services for heavy equipment in the Maldives.

Land Reclamation:

Cat 336DL hydraulic excavators, now an integral part of MTCC's fleet... works well in various applications, namely the creation of sand bunds for shore protection and dredging works for new land development projects on resort islands.

Harbour Construction Works:

Concrete quay walls and rock boulder breakwaters are also built to protect against the seasonal battering of the swell and wind generated waves on the shorelines of the otherwise heavenly calm waters. This is where the Cat 336DL has proven most adaptable and useful.



Harbour dredging works at Raa Meedhu Island

With Cat machines' track records of being dependable, robust and versatile in harsh working conditions, MTCC has added 3 units of Cat 336DL hydraulic excavators to its growing fleet of 33 Cat machines. These have always provided exceptional power and fuel efficiency which in turn, have improved MTCC's productivity in all its projects.

A sampling of MTCC's operators' comments on Cat equipment are:

- a. Reduced operators' stress and fatigue when working long days due to comfortable arrangement and controls in an air-conditioned cabin.
- b. Wide visibility and easy access to switches
- c. Easy to understand colour symbols in its monitoring panels
- d. Independent and multi-movement functions enable them to get more work done in less time. Provides outstanding controllability.

"We feel Caterpillar is always improving its products. We appreciate and thank its authorized dealer for Singapore, Maldives and Christmas Island (Indian Ocean) – Tractors Singapore Limited – for the unrelenting support they provide. Its training facility in Singapore makes it possible for our technicians and engineers to receive comprehensive and customized training for Cat equipment. Tractors Singapore has always been behind our success in this industry since our very first unit purchased in 1994," said Mr Hussain Shaheed, Senior Engineer (HOD), Contracting and Projects Department, MTCC

The introduction of these robust equipment by Caterpillar permits MTCC to push itself to the limits of coastal engineering where almost any type of construction in the Maldives is possible.



**OTTO MARINE AND GO MARINE GROUP
APPOINTS TRACTORS SINGAPORE LIMITED
THEIR SOLE ENGINE SUPPLIER FOR AHTS "GO ACAMAR"**

FULLY EQUIPPED WITH CAT® ENGINES, "GO ACAMAR" POWERS ON EFFORTLESSLY

"GO ACAMAR" was officially named and successfully delivered on 9th July 2009. This Anchor Handling Towing Supply (AHTS) vessel is a joint venture effort between Otto Marine Limited, a leading offshore marine specialist and Go Marine Group, an established Western Australia- based marine company.

This debut is an important milestone for Otto Marine in their efforts to market their vessels in the Australian offshore sector. Their joint venture with Go Marine Group, which provides logistic services to Western Geco, Neptune Marine, TS Marine, Santos, Seadrill, Awilco, Miclyn Express Offshore, Songa, Diamond, Woodside, Coogee, Prosafe Production, EnSCO and Australian FPSO Management, would facilitate their expansion into the Asia- Oceania region that is rich in both oil and gas resources.

"GO ACAMAR" is an ABS-classed, 57.5m vessel, equipped with Dynamic Positioning (DP) 1, FiFi class 1, with accommodation for up to 32 people. It comes complete with a bollard pull of 60 tonnes.

Tractors Singapore Limited (TSL), authorized Cat Dealer for Singapore, Maldives and Christmas Island (Indian Ocean), is proud to be the selected sole supplier of all the engines in "GO ACAMAR." These range from its main engines of Cat 3516B, main generators of Cat 3406C, bow thruster engine of Cat 3412C and one emergency generator of Cat C4.4.VCVB

Such a move to obtain all engines for "GO ACAMAR" from TSL is a strong reflection of its close working relationship with Otto Marine. This collaboration also demonstrates the strong faith and trust that Otto Marine places on Cat's products and TSL's supplying capability.

"GO ACAMAR" began her maiden journey in July 2009 to provide offshore services to the oil and gas projects in Western Australia.

**SIME DARBY INDUSTRIAL'S
POWER SYSTEMS DIVISION SUCCESSFULLY
CONVERTS CAT® 3412MPE
FOR HAZARDOUS ENVIRONMENT APPLICATION**



DYNAMOMETER LOAD TESTING OF THE 3412DITA MPE

Sime Darby Industrial-Power Systems Division (SDI-PSD) recently carried out conversion works on a Cat 3412D marine propulsion engine for industrial crane application. The conversion entailed modifying a marine propulsion engine, originally rated at 843hp, 1800RPM with IMO EIAPP certification, to comply to Zone 2, Gas Group 11A,T3 requirement for application in a hazardous offshore environment. The engine, re-rated to 873hp at 2100RPM, was configured to power an offshore pedestal crane capable of lifting cargoes to a maximum of 35 tons.

Conversion works, which started in mid-May 2009, took a total of 6 weeks to complete. This involved the design and installation of a Rigsafe kit, a duel starting system i.e. hydraulic and electric starters, the removal and replacement of existing switches and sensors to meet explosion proof standards and specifications, the mounting of an explosion proof terminal box to house switches, relays, contactors and termination blocks.

R.Kumareson, Application Engineer- Industrial Engine commented that the main challenge in the conversion works was to ensure that the other-than-Cat components were installed and positioned for optimal efficiency while maintaining easy access and serviceability- a requirement by our customer. As the 3412DITA had to be housed in a power pack enclosure, there was a need for a compact design to fit within a confined space. Being the first conversion of its kind done on a 3412MPE, it was a challenging but not impossible task as we had previous conversion experience working on the 3406MPE, 3056 and C9s.

A system simulation and dynamometer load test confirmed that the conversion was a success. The 3412MPE was able to achieve its maximum rated power while the simulation test on air intake and starting systems followed by safety switches and sensors passed without a glitch.

SDI-PSD delivered this engine to our OEM client on 26th June 2009.

ON THE GREENS FOR CAMARADERIE AND CHARITY. TRACTORS SINGAPORE'S GOLF TOURNAMENT 2009



Tractors Singapore Limited (TSL) once again played host to more than 100 customers and business associates in the 7th edition of the annual golf and dinner affair at the prestigious Sentosa Golf Club's Tanjong Course. This year's event saw participants confirming their slots very much earlier than usual and indeed this is testimony of their partnership with TSL. It also reflected the immense popularity of this annual event which was without a doubt, one that should not be missed.

Not even an hour's rain and lightning delay could stop all our guests and business partners from completing their rounds and thus ensured a successful ending to their golf game. In fact, the delay enabled many to catch up with friends and colleagues in the industry and to compare notes. A long screeching siren signaled the resumption of play and off went our guests in their quest for a great round of golf.

A sumptuous buffet dinner awaited all the players after the game and they were joined by other guests who were non-golfers. It was certainly a night to enjoy - great food and drinks with friends.

The top 20 players went home with prizes for their exceptional performance. There were also novelty prizes for golfers who shot nearest to the pin, nearest to the line and the longest drive. Congratulations to Mr Stewart Maclean from Sedco Forex for being the overall winner of the tournament. Again, the Hole-In-One prize eluded the guests. The Peugeot 107 courtesy of AutoFrance went back to the showroom instead of a guest's house. Better luck next year, folks!



Overall Champion, Mr Stewart Maclean receiving his prize from TSL Managing Director, Mr Ng Pock Yin

As in previous years, this event also served as a charity drive for our adopted institution, the Assisi Hospice. We are proud and at the same time, deeply humbled to share the wonderful news that we have managed to collect close to \$12,000 for the Hospice. The generosity of all; customers, vendors, business partners and TSL staff was there to be seen and truly appreciated. Sister Linda and Sister Bernadette accepted the donation on behalf of the Assisi Hospice.



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26 Benoi Sector, Singapore 629858 Tel: (65) 6261 2222 Email: rental@tractors.simedarby.com.sg



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