

# First Shipment of Tier-II Standard Compliant Engines



DAIHATSU DIESEL MFG. CO., LTD has been working on developments of engines complying with the International Maritime Organization (IMO) Tier-II standards, which will be applicable to the ships built in January 2011 and thereafter. We shipped the first lot of 6DK-20e, which is our first commercialized product (720rpm x 670kW), on June 23, before January 2011.



6DK-20e

We now have a complete lineup of our Tier-II standard compliant engines, named "e-Diesel". "e-Diesel" engines have met strict requirements of the Tier-II standards by optimizing the compression ratio, valve timings, high-pressure turbochargers, fuel injection timings, combustion chambers, and fuel injection valves without sacrificing safety, reliability, and endurance. We tuned up the products appropriately so that not only general performances, such as good fuel consumptions, are ensured but also low-load combustion can be achieved even with low-quality fuel oils, without deteriorating maximum momentary speed variation to allow customers to use our engines at ease.

We have conducted NOx evaluation test under the supervisions of different classification societies such as Nippon Kaiji Kyokai (NK), ABS, BV, CCS, DNV, GL, KR, and LR, and have been granted with certificate. The "e-Diesel" engines will be shipped in series.

We are now proactively involved with the development of NOx removal equipment, which is an exhaust post-processing equipment for removing NOx so as to comply with the stricter requirements of Tier-III standards, which will come into force in 2016. We will continue to develop products for user satisfaction.