

Registration No.	Number 00108		
Registration Date	September 11, 2012	Registration Category	Category 2

Name (Model, etc.)	Mitsubishi Non-Water Cooled Type Exhaust-Gas Turbocharger MET560
Location	Nagasaki-shi, Nagasaki
	Mitsubishi Heavy Industries, Ltd. Nagasaki Shipyard & Machinery Works
Owner (Custodian)	Mitsubishi Heavy Industries, Ltd. Nagasaki Shipyard & Machinery Works
Manufacturer (Company)	Mitsubishi Heavy Industries, Ltd. Nagasaki Shipyard & Machinery Works
Year Manufactured	1978
Reason For Selection	Large marine diesel engines often use superchargers to boost efficiency. But the low-grade oil used in the 1960s produced sulfur dioxide in exhaust gas that would combine with combustion residue and stick to the water-cooled gas casing. The sulfur component would then condense at dew point and cause sulfuric acid corrosion. In 1965, Mitsubishi Heavy Industries, Ltd. successfully resolved the corrosion problem by designing a supercharger with a coolant-free gas casing. The new design was quickly adopted on large marine diesel engines around the world. Superchargers used on large ships last for 25 to 30 years, and are generally overhauled and repaired in situ. Thus, once a supercharger has been installed on a ship it is not removed. This particular unit, a typical coolant-free model for the time, was used to train repair engineers and is in fact still used for training today. It serves as a valuable indicator of the design concepts in Japan from that era.
Registration Standard	1 - B

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Photo	
Other useful information	