


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	<p>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.</p> <p>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.</p>
Registration Standard	1 - B

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Photo	
Other useful information	