



Case Study

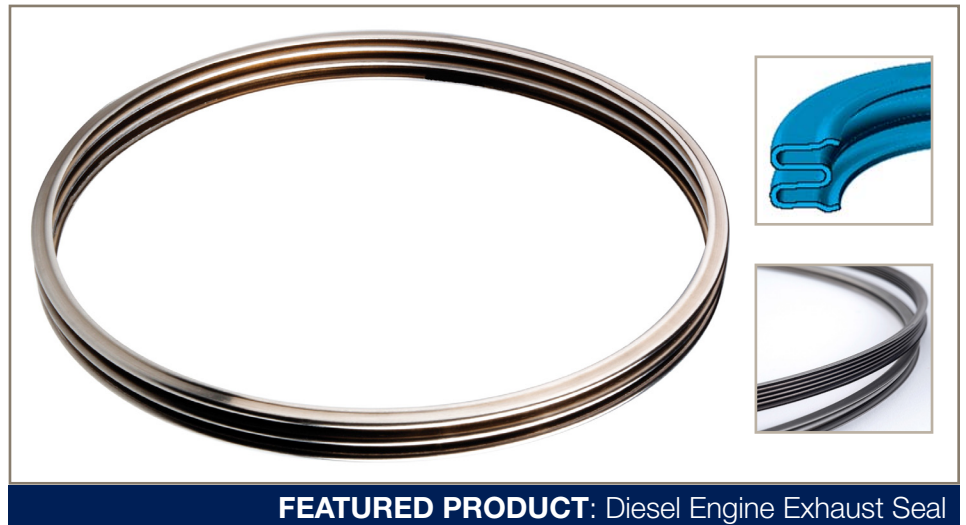
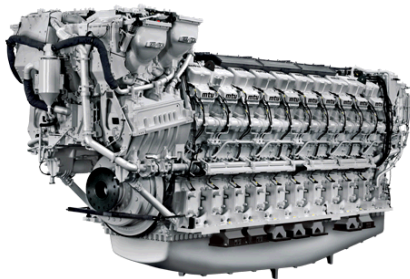
HEAVY DUTY MOBILE / EXHAUST SYSTEM



Application

Large diesel engines used in marine environments.

Application:	Metal Exhaust Seal
Temperature:	500°C - 700°C
Pressure:	5.5 bar
Medium:	Exhaust Gas

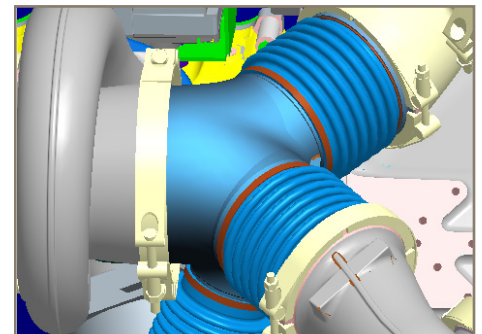


FEATURED PRODUCT: Diesel Engine Exhaust Seal

Problem

A manufacturer of large diesel engines (60 L) for marine applications was experiencing leakage from their flanges at multiple points in the exhaust system. This was due to extremely high temperatures (>700 C) combined with the caustic environment of exhausted diesel fuel particulates. Existing

solutions of flat metal and fiber gaskets could not withstand the harsh conditions within this application. Exhaust leaks in marine applications are especially dangerous due to the proximity of the motors in the vessel to the remainder of the passenger and crew compartments.



Parker Solution

Parker CSS developed a resilient metal seal made from high-temperature wasp-alloy that not only is impervious to the temperature (700 C) and medium (exhaust gas), but is easy to assemble (<80N per cm circumference) and can be universally applied in the entire exhaust system. Parker's best-in-class E-ring profile provided this OEM with a robust replacement to their current technology and a leak-free solution.

Contact

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