



David Eszenyi.

# ENGINE REMANUFACTURING - THE ULTIMATE FORM OF RECYCLING

*Sustainability is a watchword used by government and the business community as means of demonstrating a desire to be more environmentally friendly but what does this mean in automotive terms? David Eszenyi, Commercial Director Ivor Searle, provides an insight into the world of remanufacturing...*

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**overnments  
and businesses  
around the  
developed  
world are being**

**urged to embrace what's called the 'Circular Economy', as part of a global bid to control the rate at which we consume resources and pollute the environment.**

The idea promotes a range of activities including reuse, sharing, pay-per-use, repair, refurbishment, remanufacturing and recycling of products, to preserve natural resources, minimise energy consumption and avoid landfill. At the same time, economic benefits such as job creation from innovation and process allow an economy to grow and prosper without increasing damage to the environment.

Remanufacturing is a fundamental part of a Circular Economy, as it's a cost-effective alternative to manufacturing brand new products, whilst also saving on raw materials and energy. In the automotive sector, remanufacturing is a prime example of sustainability. Typically, a remanufactured engine from Ivor Searle, for example, will save 55kg in core metal. Multiply that by the number of engines being manufactured across the world

and the amount of weight involved is almost planetary. Not only that, on average, 85% of an engine's original components will be brought back to OEM specification during Ivor Searle's stringent process.

In regard to energy usage, which is on the government's agenda in terms of how the UK powers the next generation, remanufacturing requires significantly less energy. In fact, the process typically uses 85% less energy than manufacturing and, at the other end of the cycle, reduces the quantity of landfill and the associated energy needed for disposal.

The UK is one of the four leading remanufacturing countries in Europe, alongside Germany, France and Italy. Much of the current market is in the aerospace sector but this is followed by the automotive industry.

According to a recent report by the European Remanufacturing Network the remanufacturing sector could triple in size within Europe and be worth €90bn by 2030. At present, the organisation estimates it to be just under €30bn, around 2% of the size of the new manufacturing market. Despite the fact that Ivor Searle has been at the forefront of

engine remanufacturing for more than seven decades and more recently gearboxes and turbochargers, there's still confusion in the automotive market regarding remanufacturing and reconditioning. The two are fundamentally different.

The remanufacturing process aims to return a product to at least its original specification and performance with a warranty that is equivalent or better than that of the newly manufactured product. At Ivor Searle, all our engines have a 12-month, unlimited mileage guarantee and each has a unique serial number. Once shipped, we rarely see one back, which is testament to our experience and technical expertise. In contrast, a reconditioned engine is a unit that has been stripped or disassembled, cleaned and may have had some damaged components replaced prior to being rebuilt.

Furthermore, a remanufactured engine is required to meet a specific standard for it to be described as such under BSI AU 257:2002. This is a British Standard Automobile Series Code of Practice that applies to the remanufacturing of petrol and diesel engines.

With the legal requirement that

all EU manufactured cars are 95% recyclable, it's clear that the automotive sector is a trailblazer for sustainability in its widest sense but seeking greater volumes of new product is unsustainable, as technology improves.

Ivor Searle is a leading independent producer of remanufactured engines and all major powertrain components. The company has made a major investment in the market and employs the same quality-focussed ethos from over 70 years of engine remanufacturing expertise in its turbocharger facility, which is certified to ISO 9001:2008. Providing first class customer service is central to Ivor Searle's ethos and ensures that customers can buy Ivor Searle turbochargers in complete confidence with the added reassurance of a comprehensive warranty. An extensive all makes programme covers petrol and diesel cars and light commercial vehicles, with new applications being constantly added to the extensive range.

**For more information: 01353 720531 or [www.ivorsearle.co.uk](http://www.ivorsearle.co.uk)**