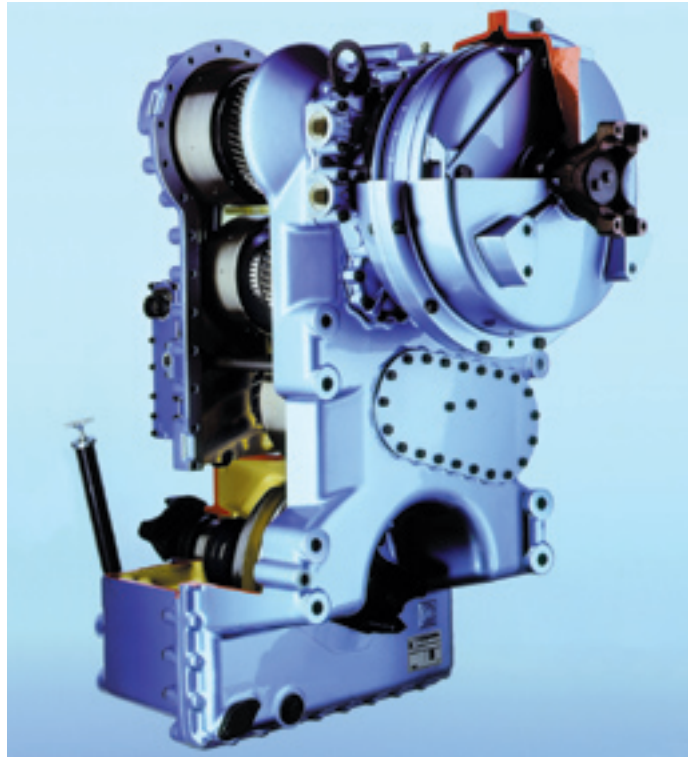


**PANOLIN  
helps to reduce  
CO<sub>2</sub> emissions**



PANOLIN biodegradable long life high performance transmission oils help to reduce CO<sub>2</sub> emissions. Performance and environmental considerations are key elements to making improvements to the efficient running of the UK Rail Network. Lubricants now need to have high performance for reliable and profitable rolling stock and track maintenance machinery operation as well as a good ecological pedigree.

For many years PANOLIN AG have been synonymous with both of these criteria; their biodegradable hydraulic oils have developed an enviable reputation for high quality and extended service life.

Recent research has revealed that gearboxes and transmissions systems are applications that to date have not been considered as a priority in terms of their impact on the environment, after all, they do not have many leaks.

However as demands for greater reliability, better asset utilisation and improved productivity increase, maintenance and lubrication need to play their part in order to ensure that ambitious operating targets are met.

«Our research indicates that the oil service life has not increased over time necessitating frequent visits to the workshop for oil changes. Component reliability has in some applications been compromised as asset utilisation demands have increased.

That is up until now. Our team of development chemists and engineers have produced a range of fully synthetic gear oils and transmission fluids that are both biodegradable and high performance with a long service life. Oil change intervals can now be confidently extended offering longer service periods, producing less waste and negating the expensive cost of waste disposal», said Patrick Laemmler, executive director of PANOLIN AG.