



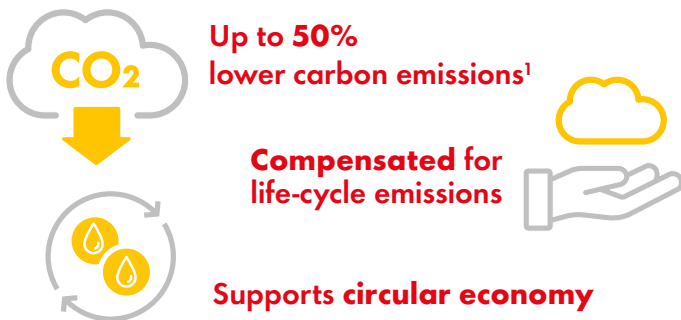
AeroShell

New AeroShell Smoke Oil

Air show entertainment with a clear conscience

Smoke trails are an essential element of many air displays, helping spectators on the ground follow the airborne action and adding to the drama.

AeroShell Smoke Oil, which creates a highly visible, dense white trail, has now been reformulated with re-refined base oil (RRBO) to cut carbon emissions by about 50%.¹



Avoiding emissions and waste

The re-refining technology can produce up to 88% useful products. This includes mostly high-quality base oils, but also diesel, bitumen and naphtha.

The production of RRBO generates less emissions than the raw material extraction and manufacture of base oils from crude oil or gas, and emits about 50% less CO₂ equivalent on a cradle-to-refinery-gate basis.¹ It also contributes to a circular economy as RRBO is made by re-refining waste oil.

Compensating for life-cycle emissions

We offer sustainable aviation fuels and are working on other technologies that have the potential to play major roles in decarbonising the aviation sector. And although

fuel makes up a far larger proportion of carbon emissions than lubricants, and smoke oil is a specialist product, we want to look at all areas of our operations. For that reason, we are working to avoid, reduce and compensate² for the life-cycle carbon emissions associated with AeroShell products, including new-formulation AeroShell Smoke Oil.

We are avoiding emissions from extracting and processing raw materials by using more re-refined base oils. We are also reducing emissions by obtaining more than 50% of the electricity in our lubricant oil blending plants from renewable sources,³ optimising our network (reducing road transport by more than 1.3 million miles since 2021), improving operations, and cutting the carbon intensity of our production process by more than 45% since 2016.⁴

Life-cycle carbon emissions that cannot currently be avoided or reduced are compensated for through carbon credits. Our portfolio of projects which yield carbon credits are independently verified and assessed using approved greenhouse gas accounting methodologies. All our projects meet external carbon standards (e.g., Verra, the American Carbon Registry, Gold Standard, or Chinese Certified Emission Reduction) and go through additional due diligence.

¹Compared to previous gas-to-liquids (GTL) formulation. Based on cradle-to-refinery-gate carbon intensities for RRBO and GTL-based oils. Carbon intensities calculated based on primary activity data from producer following industry best practice guidance. Carbon intensity may be subject to change as a result of changes in the product specifications, changes in emission factors, or otherwise. The base oil contribution is part of life cycle carbon footprint, so the carbon footprint reduction on a cradle-to-grave basis would be lower. ²CO₂ Compensated: CO₂ compensation is not a substitute for avoiding emissions, reducing the use of fossil fuels or switching to lower emission energy solutions. Carbon credits are purchased and retired to compensate the calculated lifecycle CO₂e emissions of the product. Although these carbon credits have been generated in accordance with international carbon standards, the compensation may not be exact. ³More than 50% of the electricity used at our global lubricant oil blending plants comes directly from renewable sources through the installation of solar PV panels and green power contracts, or indirectly using renewable energy credits. ⁴Based on full-year 2022 data.

Contact us

Contact your AeroShell representative to find out more about AeroShell Smoke Oil and our full range of carbon compensated products.