



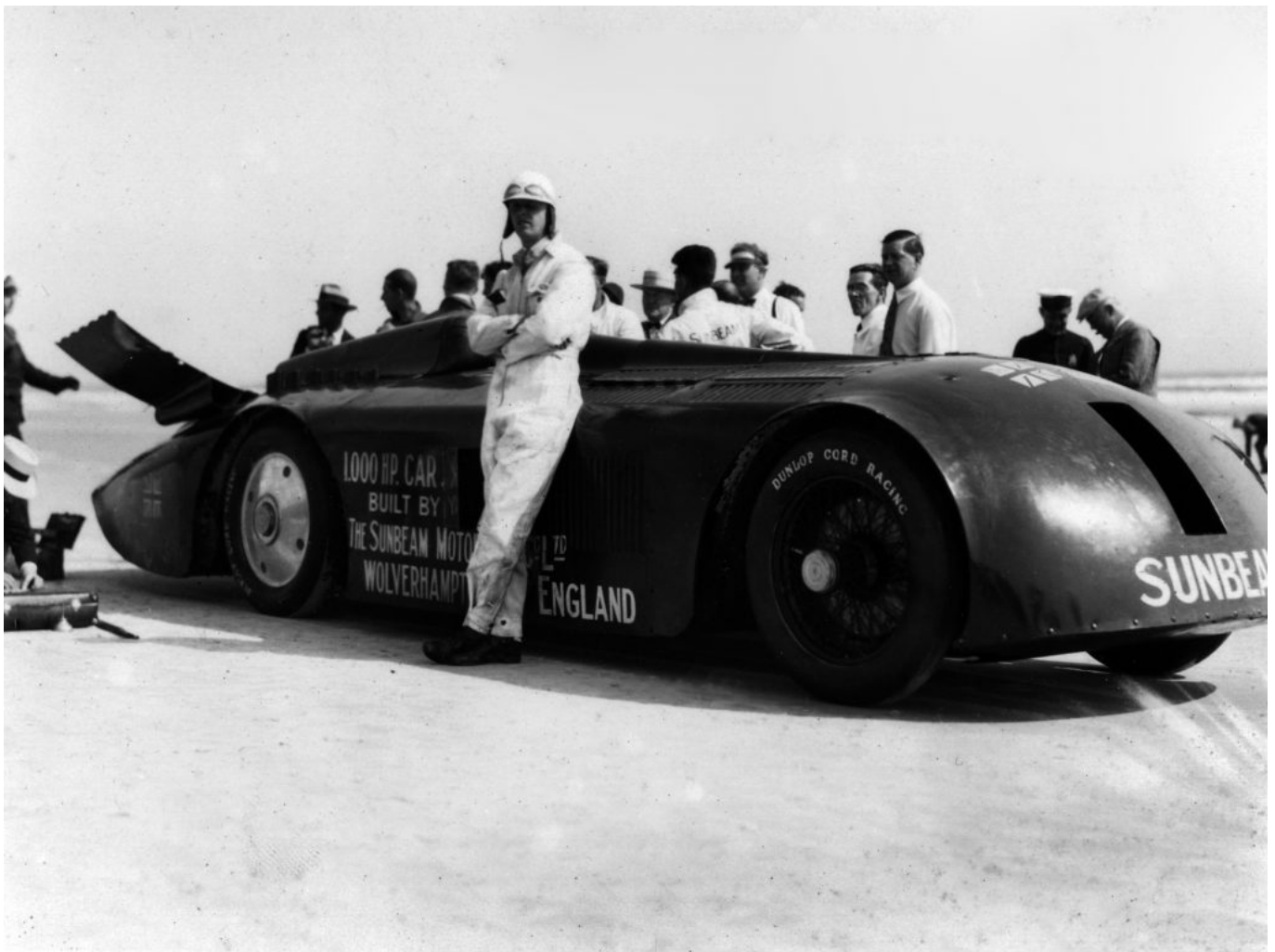
National Motor Museum engineers rebuild second engine for Sunbeam 1000hp World Land Speed Record breaker

Published: April 16, 2026

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Online version:

<https://www.wheels-alive.co.uk/national-motor-museum-engineers-rebuild-second-engine-for-sunbeam-1000hp-world-land-speed-record-breaker/>



Major Henry Segrave with Sunbeam 1000hp at Daytona Beach in Florida.



[National Motor Museum](#) engineers are rebuilding the second engine of World Land Speed Record Breaker Sunbeam 1000hp in the countdown to its planned 100th anniversary run at Daytona.

The National Motor Museum tells us...

(All photographs and words from The National Motor Museum).

The engineers had found more problems than expected while dismantling the front engine and extensive work has been carried out, both on and off-site, to repair the original parts.

Cracks were discovered in four engine blocks, after water had frozen in the system during Sunbeam's earlier life, and all needed specialist welding by external partners [OCS Automotive Engineering](#) and [Read Performance](#).

Rust from pistons and cylinder bores was machined out of the blocks then replaced with steel liners, while a complete set of piston rings has been saved intact and cleaned for the rebuild.



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Senior Engineer Ian Stanfield inspects cylinder bores.



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Sunbeam's con rods have also been worked on by [Marcos Motor Company's Formhalls Engine Services](#), whose craftsmanship in white metal bearings also helped with the restoration of Sunbeam's first engine.

All parts are now back in the National Motor Museum workshop, where the team is reassembling Sunbeam's colossal 22.5 litre Matabele V12 aero engine.



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Newly welded engine block.



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Senior Engineer Ian Stanfield inspects engine blocks.



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Apprentice Aaron Burton cleans crankcase ready for painting.



Apprentice Aaron Burton cleans colossal crankcase in second engine rebuild.

See work on the rebuild here: <https://youtu.be/K9Wa91P6kDc>

Countdown race is on

The clock is ticking to complete the restoration for Sunbeam 1000hp to be shipped to the USA to take centre stage at the Pebble Beach Concours d' Elegance in California in August.

The aim is to take 'The Slug' back to Daytona for a momentous low-speed centenary run in



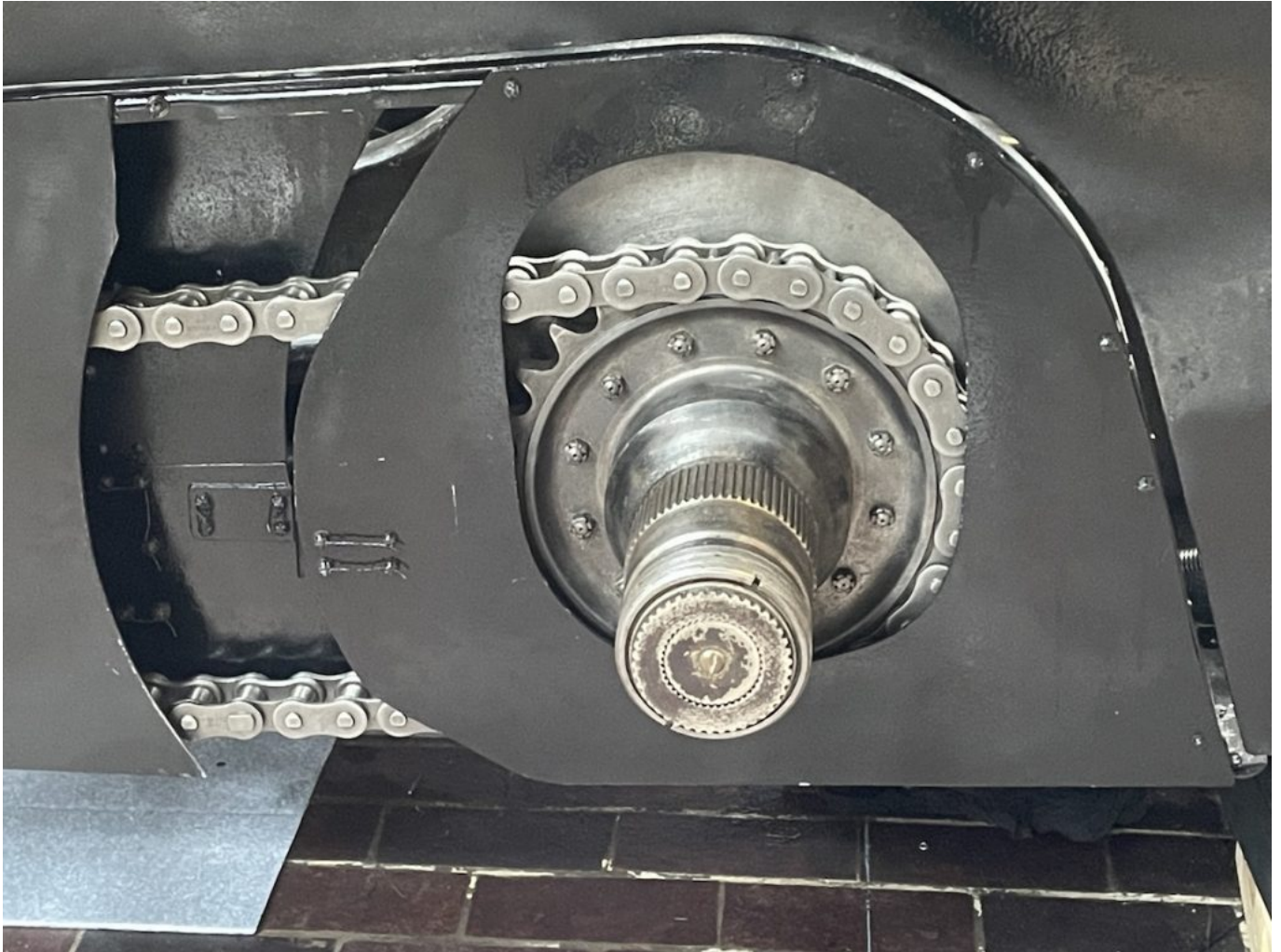
March 2027, to celebrate Sir Henry Segrave breaking the 200 mph World Land Speed Record on the beach 100 years ago.

Sunbeam 1000hp can run on just one engine but the team's challenge is to hear both engines roar again for the first time in over 90 years.

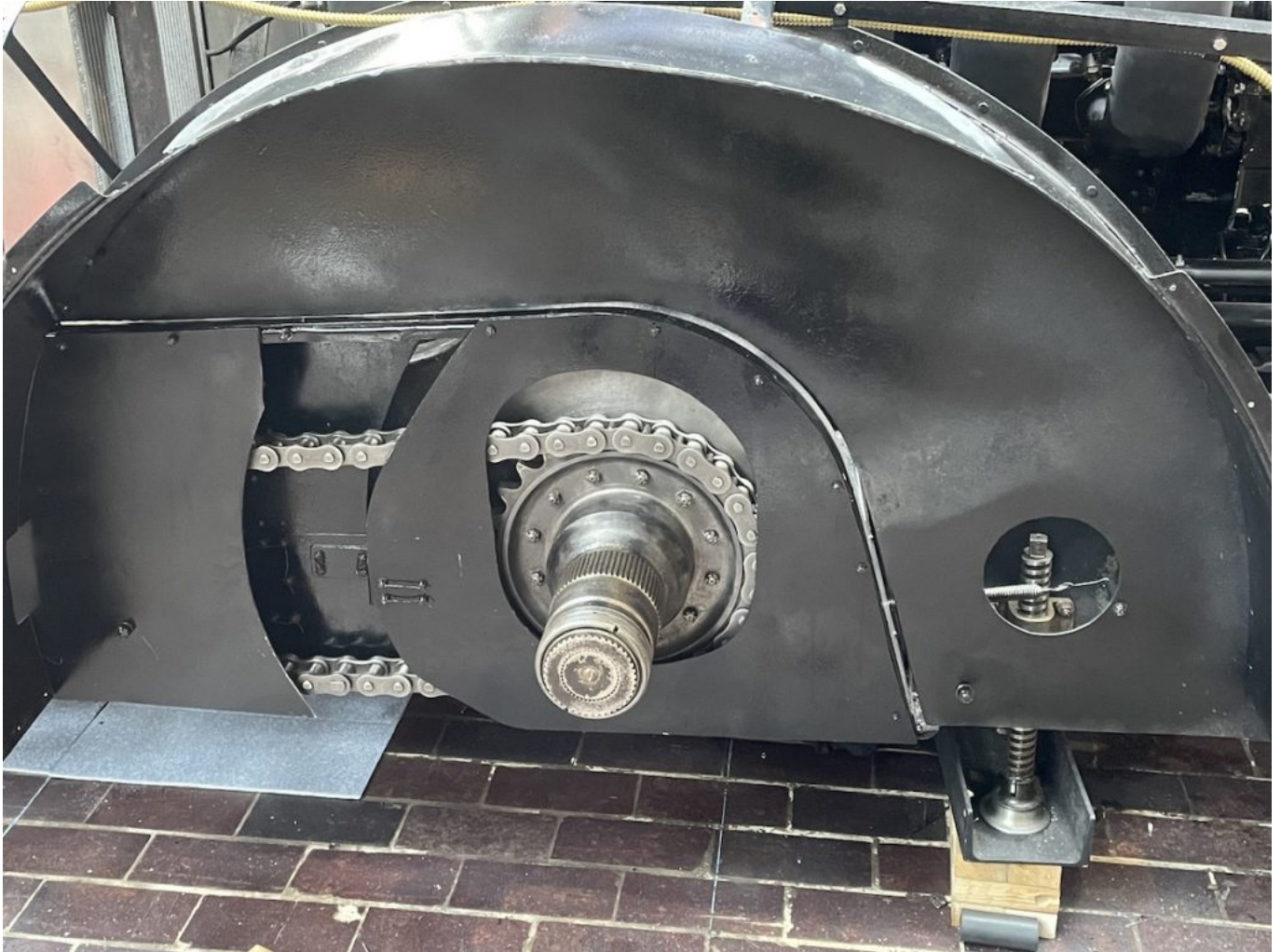
National Motor Museum engineers are using their knowledge from the first engine rebuild to work on the second, though both engines are unique and run in opposite directions. There are no manuals or documentation to help.

Meanwhile, the Sunbeam chassis is also being restored while on display in the National Motor Museum at [Beaulieu](#).*

Impressive steel wheel arches and chain guards, which help keep the driver safe, have been bolted back on. Aerodynamic wheel spinners are also currently being made.



Huge new chains fitted on wheels.



Steel wheel arches and chain guards fitted on the chassis.

Keeping Sunbeam's radiators cool is vital, so work is being carried out on the original air ducts to take air away from both engines during the run.

Funds are needed to see this important part of World Land Speed Record history restored, displayed and run again. Donations can be made online at

<https://nationalmotormuseum.org.uk/sunbeam-1000hp-restoration-campaign/>.

[The National Motor Museum](#)

[The National Motor Museum Trust Limited](#) is a charitable organisation founded in 1972,



which runs the National Motor Museum at Beaulieu in the New Forest. Continuing the work of the flagship Montagu Motor Museum, the Trust has a world-famous collection of 280 vehicles and associated motoring items on display at the National Motor Museum. An Accredited Museum, all its collections have been designated by Arts Council England as being of national and international importance. Its internationally acclaimed collection of more than 1.9 million items is cared for by the National Motor Museum Trust and includes historically significant motoring artifacts, film footage, images, documents and books. The nearby Collections Centre houses and cares for a vast array of motoring artifacts, photographic images, a specialist reference library, and a film and video library. For more information about its collection and services, see www.nationalmotormuseum.org.uk.

Beaulieu

*Your ticket to [Beaulieu](http://www.beaulieu.co.uk) includes entry to the [National Motor Museum](http://www.nationalmotormuseum.org.uk) with its brand new gallery [Driven: Britain's Motoring Story](#) and hands-on [We Had One Of Those](#). Step back in time at [Palace House](#) with its recently refurbished former private wing, 13th century [Beaulieu Abbey](#) and the [Secret Army Exhibition](#), have fun in [Little Beaulieu](#) and enjoy unlimited rides on the monorail while exploring the beautiful grounds and gardens. For tickets and details see www.beaulieu.co.uk or call 01590 612345.