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October / November 2022

Issue No: 64

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THIS ISSUE: Motorsports Hall of Fame NASA SLS Artemis I and Much More

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SPEEDI'S BLOG

Welcome to Speedi's Blog.

NASA hopes to launch its SLS Artemis I rocket for its test flight to the Moon and back on November 14. Let's hope this second launch attempt is successful.



There's a 69-minute launch window that opens at 12:07 a.m. EST. The aim is to send the Moon landing capsule Orion around the Moon and back to Earth to thoroughly test its system before flights with astronauts.

I've been at the Kennedy Space Center when launches have been scrubbed at the last minute, sometimes with only seconds to go before the launch. It's a bitter disappointment for those involved and of course for the many thousands of spectators from far and wide who flock to the Titusville area of Florida for each launch.

International travel is now opening up again. I am aware of this from my research into travel documentation required for Covid 19 vaccination status. In essence, if you have had 2 main doses of vaccine plus a booster shot then you are good to travel without any pre-testing. But there are some variations - such as visiting Japan. Here they do not accept the AstraZeneca shot as a booster - why?

The two airlines I regularly use for my travels to the USA are American and Delta. The reason being my many connections with pilots from these two airlines. However, I do fly short haul on British Airways and Iberia within Europe.

Right now I'm wondering about a flight around the world and that could include using Finnair, Japan Airlines and Quantas. American and Delta are once again flying to Australia but do not cover the sector from Europe to the Far East so to make a true round the world flight I need to include these other airlines. As I travel stand-by this also means avoiding the heavily traffic routes such as the more direct UK to Australia flights.

Had it not been for the soccer World Cup taking place in Qatar I could have used Qatar Airways which has a very good score on the customer satisfaction front. The problem is that the World Cup is taking place in Qatar when I want to travel and the Country will only let foreigners in if they have a World Cup ticket. Soccer is not one of my hobbies so that is out. >

> This means that more than likely I will not be flying in an Airbus A380, something which I would like to do, as American and Delta have never used this model.

I am amazed how the 2 major US airlines feature so poorly in the global satisfaction tables. But having experienced these two airlines for international travel they need to get their act together to compete if they are serious about restarting their global flights to the Pacific rim.



Interestingly, American is removing its 'true' first class seats altogether from its B777-300ER range by 2024 when they will increase the number of business class seats from 52 to 70. But it's the Airbus A321XLR which will really change things.

American placed an order for 50 of the new planes, which have a maximum range of 4700 nautical miles. So this will cover many of their flights between the USA and Europe.



On 15 June 2022, the first A321XLR successfully accomplished its very first flight. The aircraft is now starting its flight test campaign on route to secure Type Certification in 2023 and entry into service in 2024.

With the introduction of new interiors on its long-haul aircraft, premium seating on American's long-haul fleet will grow more than 45 percent by 2026. American's Boeing 787-9 aircraft will have 51 Flagship Suite® seats and 32 Premium Economy seats, and the airline's Airbus A321XLR aircraft will feature 20 Flagship Suite® seats and 12 Premium Economy seats. I just wonder if their cabin service will hold up to scrutiny with the massively increased number of premium seats. I hope so, but . . .

Interestingly Jet Blue and Qatar announced a new code share deal on October 27. This will mean that JetBlue passengers can now fly on Qatar Airways to 11 new destinations in Africa and Asia, including Bangkok (BKK), Denpasar-Bali (DPS) & Phuket (HKT). JetBlue has already started its own business class flights between the USA and UK in direct competition to American, a code share partner in some markets. JetBlue plans to acquire Spirit and create an alternative to the dominant "Big Four" airlines. Watch this space, as the saying goes . . .

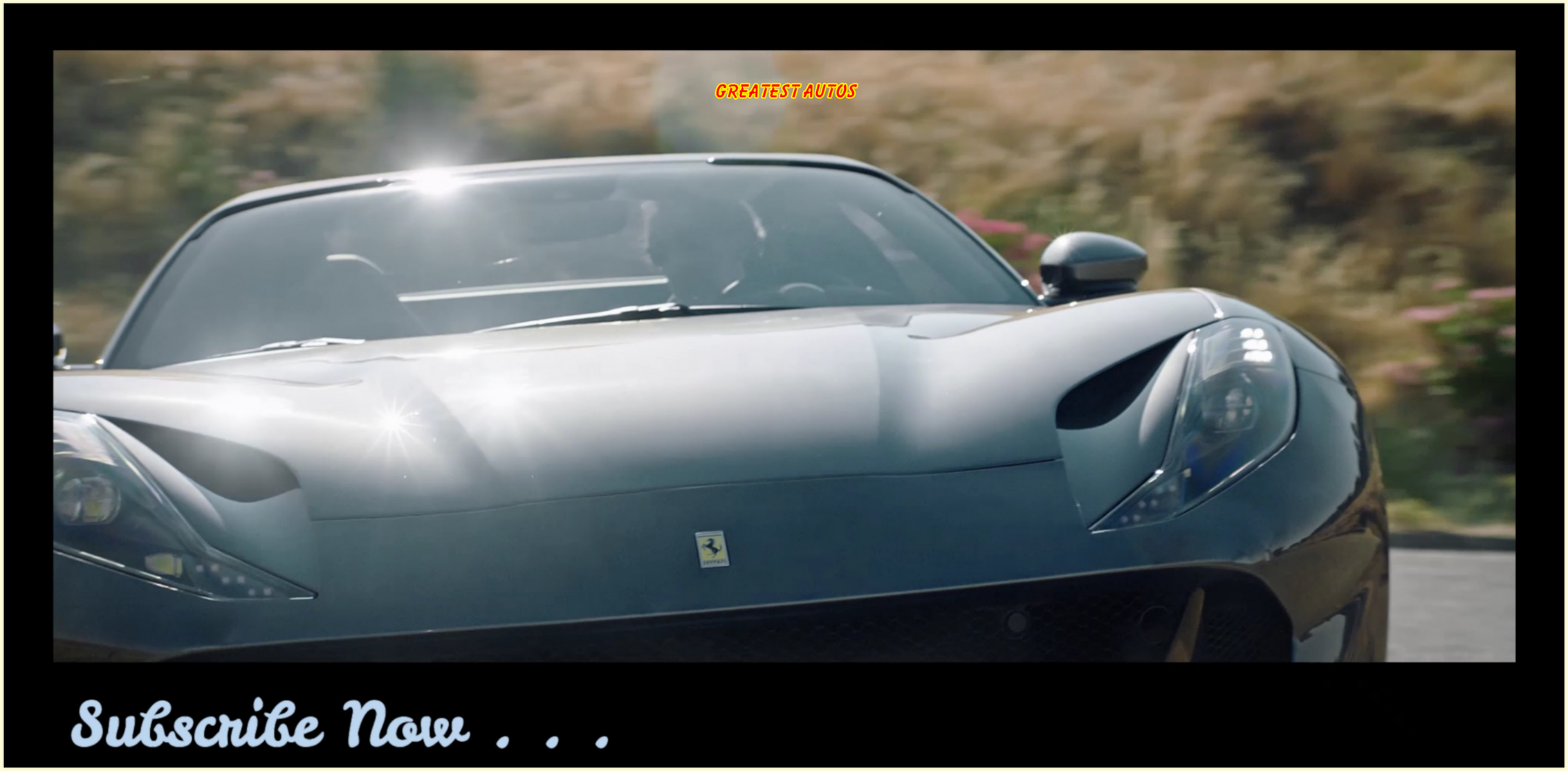


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On Sept. 21, 2022, the James Webb Space Telescope delivered the clearest view of Neptune's rings in more than 30 years. Webb's Near-Infrared Camera (NIRCam) captured several bright, narrow rings as well as the planet's fainter dust bands. Voyager 2 was the last to detect some of these rings during its flyby in 1989, but this is the first time we have an infrared image of them.

Since NIRCam images objects in the near-infrared range from 0.6 to 5 microns, Neptune does not appear blue to Webb. In fact, the methane gas so strongly absorbs red and infrared light that the planet is quite dark at these near-infrared wavelengths, except where high-altitude clouds are present. Those methane-ice clouds are prominent as bright streaks and spots, which reflect sunlight before it is absorbed by methane gas.

Image Credit: NASA, ESA, CSA, STScI

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Wings & Wheels

Editorial

Welcome to the October / November 2022 issue of *Speedi Wings & Wheels.*

Take a look at our 'Content's page to find out more about what's in this issue. The magazine is published bi-monthly during the last week of February, April, June, August, October and December.



A special aircraft landed recently at the Kennedy Space Center at Cape Canaveral in Florida: the Airbus BelugaST (A300-600ST). It delivered the Airbus-built HOTBIRD 13G satellite for Eutelsat. This happened a few hours after its twin, HOTBIRD 13F, was successfully launched by a SpaceX Falcon 9 rocket.

The main photo shows the Beluga departing Toulouse and the photo above the loading of the satellite system.

Photos by Airbus

In this issue we are featuring a look at the NASA SLS Artemis I program - Plus much more . . .

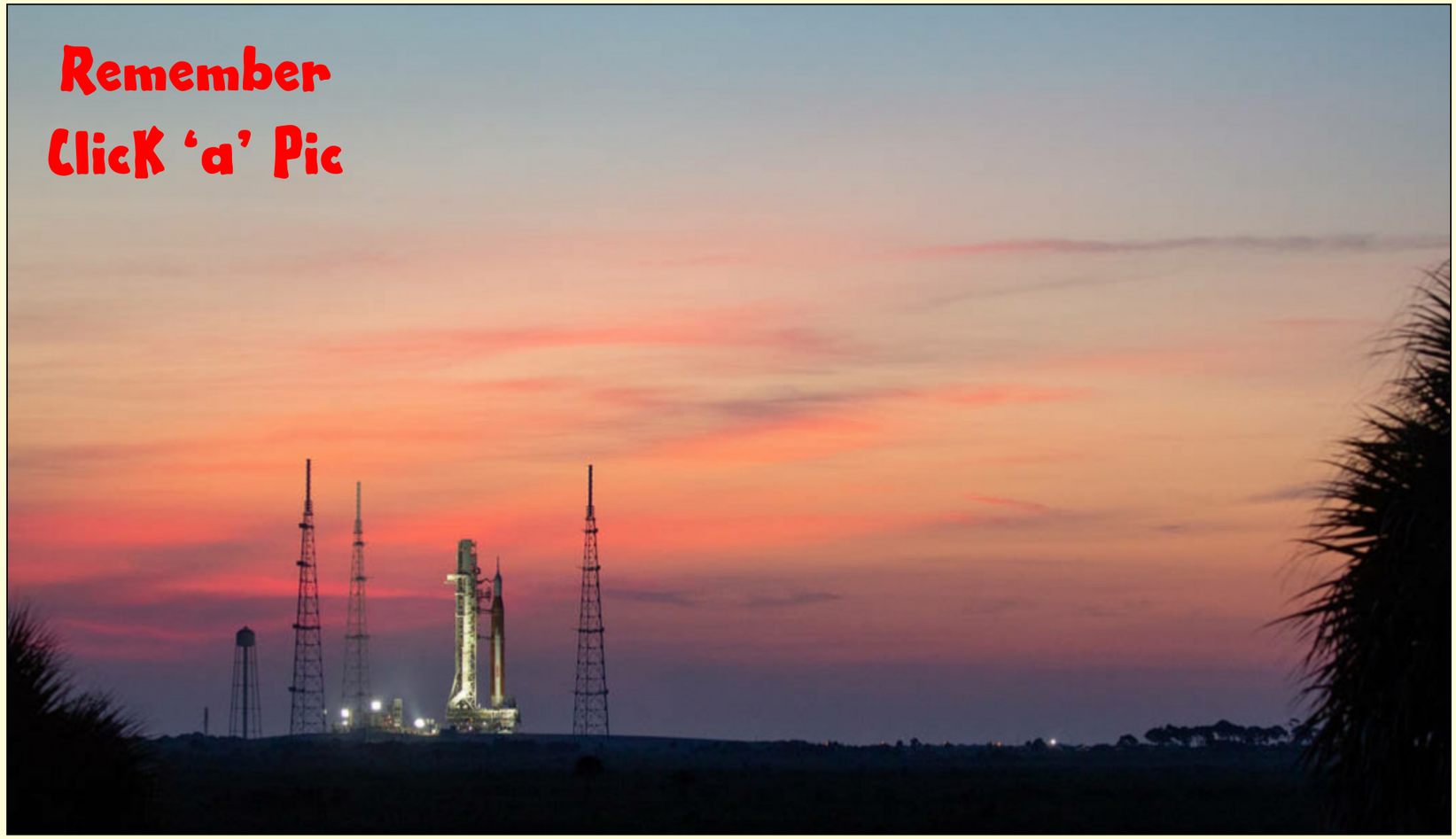
Take a look at the next page - the magazine index - for more details

Blue Sky's and Safe Flying.

The Speedi Team

Speedi Wings & Wheels is a wide screen format magazine
Best viewed in full screen single page HD mode

8 NASA SLS Artemis I



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Wings & Wheels

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37 Motorsports Hall of Fame: Daytona International Speedway is the home to Heritage Daytona and the Motorsports Hall of Fame of America which houses such exhibits as the record setting Blue Bird of Sir Malcolm Campbell. Gary Rosier went along to view the exhibits . . .

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Boeing, Red 6 to Advance Fighter Pilot Training with Augmented Reality

- Pilots will see and interact with augmented reality aircraft, targets and threats
- The F-15EX and T-7 first potential users

WASHINGTON, D.C., Sept. 21, 2022 — The future of advanced fighter pilot training is leaping into the virtual world as Boeing [NYSE: BA] and augmented reality developer Red 6 announced they are collaborating to develop leading edge aerial dogfighting technology and training in advanced tactical aircraft. Boeing is the first company to team with Red 6 on this type of advanced training technology.

The joint agreement sets the stage for future integration of Red 6's Advanced Tactical Augmented Reality System (ATARS), and Augmented Reality Command and Analytic Data Environment (ARCADE) into Boeing manufactured next-generation aircraft. The T-7 and F-15EX platforms could be among the first to receive ATARS and ARCADE.

Using the system, pilots will be able to see and interact with augmented reality aircraft, targets and threats on the ground or in the air while flying and training in their actual aircraft, reducing the cost of and need for multiple platforms and 'real world training exercises.'

"We continue to revolutionize the way we train and fight. Red 6's Augmented Reality system with the pathfinding T-7 and the F-15EX represents another transformational leap in capability. This agreement is the latest example of Boeing's commitment to investing in technology and our drive to lead innovation in the aerospace and defense sectors," said Dan Gillian, vice president and general manager of U.S. Government Services for Boeing Global Services.

According to Red 6, ATARS enables a multitude of tactical training scenarios delivered through



augmented reality. These include air combat manuevers, refueling, tactical formation and surface-to-air weapon engagements. ARCADE increases the efficiency of mission planning, briefing and debriefing through real-time 3D visualizations to construct and re-construct sorties.

"Readiness and lethality are critical if our warfighters are to prevail against peer adversaries. Boeing's next-generation platforms will be the first aircraft in the world that are capable of entering our augmented reality training environment. Together, we will deliver a paradigm shift in the quality, quantity and cost of training future pilots," said Daniel Robinson, Founder and CEO of Red 6.

As a leading global aerospace company, Boeing develops, manufactures and services commercial airplanes, defense products and space systems for customers in more than 150 countries. As a top U.S. exporter, the company leverages the talents of a global supplier base to advance economic opportunity, sustainability and community impact. Boeing's diverse team is committed to innovating for the future, leading with sustainability, and cultivating a culture based on the company's core values of safety, quality and integrity. Join our team and find your purpose at boeing.com/careers.

Red 6, founded in 2018, is the creator of Airborne Tactical Augmented Reality System (ATARS), Combined Augmented Reality Battlespace Operational Network (CARBON), and Augmented Reality Command and Analytic Data Environment (ARCADE). Red 6 systems are the first wide field-of-view, full color demonstrably proven outdoor augmented reality solution that operate in dynamic outdoor environments. Together, they bring virtual and constructive assets into the real-world by allowing pilots and ground operators to see synthetic threats in real-time, outdoors, and critically, in high-speed environments.

Airbus C295 onboards the sustainability journey with a first demo flight with SAF

22 October 2022

Airbus C295 is next in the race towards a more sustainable military aviation among Airbus Military Air Systems, following the first demo flight with SAF performed by Airbus A400M last summer. With a load of 29% blended SAF in its two engines, the C295 performed a successful first flight in Seville which helped to pave the way towards the final goal: to achieve 100% SAF capability for Airbus military aircraft and the decarbonisation of military aviation.



9.00 am on Wednesday, 19 October. The C295 team in charge of the SAF project met for an early morning briefing prior to the flight scheduled for that same day. The crew, the fuel team, engineers, pilots, flight test engineers… all gathered in the meeting room of the Airbus San Pablo Plant in Seville, going once again through the flight plan before take-off.

"With up to 50% of blended SAF, no modifications are required on the aircraft", explained Jose Antonio Urbano, R&D Chief Engineer at Airbus Defence and Space. "So we are performing this demo flight to fully understand the aircraft behavior and to derive the necessary conclusion in preparation for future test campaigns with SAF", he added.

The C295 would fly with a load of 29% blended SAF in both engines, so there was no need to modify the engines´ systems and the team faced no technical limitations on the preparation of the flight. "Although we know it would not be necessary with this SAF percentage used, the approach taken for this flight was to put the aircraft under the most demanding conditions in order to gather the necessary inputs for future 100% SAF operations. Our objective is to measure the aircraft performance with both fuels - Jet-A1 and SAF -, shut down and restarting the engines on flight, sudden movement of the power control levers to produce intense fuel demands, a rejected landing, manoeuvers of approach and go around after performing the final landing, requesting the maximum negative power", explained Juan José Baeza, Flight Test Engineer at Airbus Defence and Space.

The wishes for a good flight concluded the briefing session.

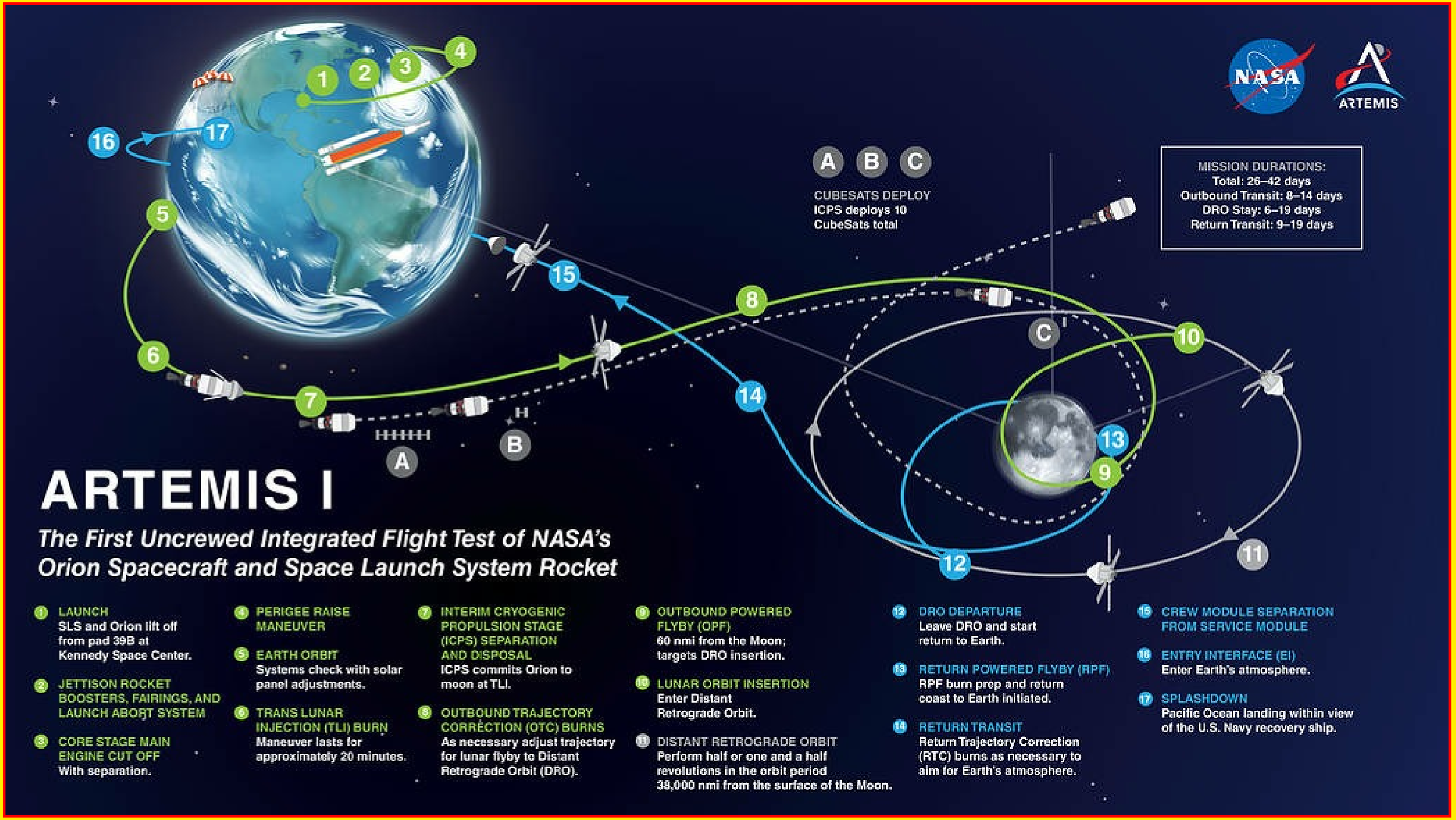
Then, the crew headed to the Flight Line, where the MSN163 awaited after having performed the requested ground tests and pre-flight tests on the previous days. The crew for this particular flight - Alejandro Grande, Alfonso de Castro, Pedro J. Martin and Juan J. Baeza - boarded the aircraft. Meanwhile, the team on the ground was busy with the refuelling manoeuvers, with a slight change on their normal procedure: The two PW127G engines of the MSN163 would be running, for the first time, with a load of 29% blended SAF.

Much like the A400M first flight with SAF conducted in July 2022, the drop-in fuel used for this flight is also the HEFA type (Hydroprocessed Esters and Fatty Acid) made of residuals of oils, vegetables and fats, and is also free of aromatics and sulphur. One of the main benefits of using SAF is reduced carbon emissions of 80% on average today over the entire lifecycle of the fuel.

All photos courtesy of NASA

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NASA
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A B C
CUBESATS DEPLOY
ICPS deploys 10
CubeSats total
MISSION DURATIONS:
Total: 26–42 days
Outbound Transit: 8–14 days
DRO Stay: 6–19 days
Return Transit: 9–19 days
ARTEMIS I
The First Uncrewed Integrated Flight Test of NASA's Orion Spacecraft and Space Launch System Rocket
1 LAUNCH
SLS and Orion lift off from pad 39B at Kennedy Space Center.
2 JETTISON ROCKET BOOSTERS, FAIRINGS, AND LAUNCH ABORT SYSTEM
3 CORE STAGE MAIN ENGINE CUT OFF
With separation.
4 PERIGEE RAISE MANEUVER
5 EARTH ORBIT
Systems check with solar panel adjustments.
6 TRANS LUNAR INJECTION (TLI) BURN
Maneuver lasts for approximately 20 minutes.
7 INTERIM CRYOGENIC PROPULSION STAGE (ICPS) SEPARATION AND DISPOSAL
ICPS commits Orion to moon at TLI.
8 OUTBOUND TRAJECTORY CORRECTION (OTC) BURNS
As necessary adjust trajectory for lunar flyby to Distant Retrograde Orbit (DRO).
9 OUTBOUND POWERED FLYBY (OPF)
60 nmi from the Moon; targets DRO insertion.
10 LUNAR ORBIT INSERTION
Enter Distant Retrograde Orbit.
11 DISTANT RETROGRADE ORBIT
Perform half or one and a half revolutions in the orbit period 38,000 nmi from the surface of the Moon.
12 DRO DEPARTURE
Leave DRO and start return to Earth.
13 RETURN POWERED FLYBY (RPF)
RPF burn prep and return coast to Earth initiated.
14 RETURN TRANSIT
Return Trajectory Correction (RTC) burns as necessary to aim for Earth's atmosphere.
15 CREW MODULE SEPARATION FROM SERVICE MODULE
16 ENTRY INTERFACE (EI)
Enter Earth's atmosphere.
17 SPLASHDOWN
Pacific Ocean landing within view of the U.S. Navy recovery ship.

Weighing in around 6 million pounds, NASA's crawler-transporter 2 will carry the agency's mobile launcher with the Space Launch System (SLS) rocket and Orion spacecraft – an additional 18 million pounds – from the Vehicle Assembly Building (VAB) to Launch Pad 39B for the launch of Artemis 1. And driving all of that weight around is no easy task – something that Breanne Stichler, one of the few women to ever drive the crawler, is discovering.

Breanne Stichler, mechanical engineer I, is photographed in front of NASA's Crawler-Transporter 2.

Breanne Stichler, mechanical engineer I, is photographed in front of NASA's Crawler-Transporter 2 (CT-2) at the Kennedy Space Center in Florida on Aug. 8, 2019.

Credits: NASA/Ben Smegelsky

Stichler, 22, is a mechanical engineer and now one of nine crawler drivers at NASA's Kennedy Space Center in Florida, and is still learning how to drive the enormous vehicle.

"Getting to drive the crawler is a rare opportunity, because there are only two in existence," said Stichler. "It's also very intimidating because of its massive size."

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All photos for this feature by Gary Rosier, unless otherwise notated


ORION
LAUNCH ABORT SYSTEM
ABORT MOTOR
JETTISON MOTOR
ATTITUDE CONTROL MOTOR
CREW MODULE
SERVICE MODULE
SPACECRAFT ADAPTER
EUROPEAN SERVICE MODULE
CREW MODULE ADAPTER
SPACECRAFT ADAPTER JETTISONABLE PANEL
AUXILIARY THRUSTERS
ORION MAIN ENGINE
REACTION CONTROL SYSTEM
United States
NASA
esa

SPACE LAUNCH SYSTEM

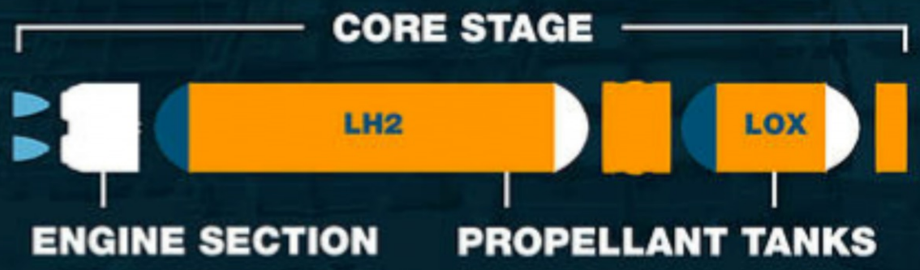
ARTEMIS I:
FOUR RS-25 ENGINES

UPGRADED & READY FOR A BOLD NEW MISSION



Shown here from the bottom, looking up at the rocket from below, four liquid hydrogen **(LH2)** and liquid oxygen **(LOX)**-fueled **RS-25 ENGINES** are arranged in a square pattern, like legs on a table, providing stability and even distribution of propulsion forces to the rocket. At launch, they will produce

2 MILLION POUNDS OF THRUST
to help power the Space Launch System.





Including these first four engines, NASA has a total **16 ENGINES** available for the first four missions.

www.nasa.gov/SLS





WHAT'S IN A NUMBER?

Each engine has its own number and NASA keeps a history of which engines are used on each mission. For the first SLS flight, they are engines **E2045**, **E2056**, **E2058** and **E2060**.

ENABLING MISSION SUCCESS

These four proven engines contributed to **21** successful shuttle flights over three decades.

- **E2045**: most veteran engine with **12 FLIGHTS** (First flight was STS-89 in January 1998 and last was STS-135 in July 2011); also flew on Astronaut John Glenn's last flight, STS-95
- **E2056**: Total **4 FLIGHTS**, including STS-114, NASA's Return to Flight after Columbia
- **E2058**: Total **6 FLIGHTS**, including first flight of a Swedish astronaut (Christer Fuglesang)
- **E2060**: Total **3 FLIGHTS**, including STS-135, the last shuttle mission

WHAT'S NEW FOR SLS?

- **ENGINE CONTROLLERS** - the brains of the engine
- **HIGHER THRUST** - equates with better performance
- **ADAPTED TO SLS UNIQUE OPERATING ENVIRONMENTS**

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NEWS FROM THE BARN

In our '*News from the Barn*' section we will be featuring news and photos from Spruce Creek Fly-in, the world's greatest aviation community. With over 1600 homes, and not all of them are hangar homes, and home to over 3000 people, there are over 650 airplanes based at Spruce Creek. But it's not all about aviation at Spruce Creek - there's golf, tennis, motorcycling and much more, as well as a Country Club and the Downwind restaurant right alongside Beech Boulevard - a major taxiway in the center of the airport. EAA Chapter 288 (Daytona Beech) meets at Keith Phillip's hanger on the other major taxiway - Cessna Boulevard. Then there's the Gaggle Flight, which is quite something in its own right. Every Saturday morning (and sometimes on Wednesday too) members of the Gaggle Flight meet at The Big Tree which sits right in the middle of the airport. Upwards of 30 aircraft depart in flights of 3 or 4 (and sometimes more) flying out to breakfast. The arrivals back are usually spectacular, with overhead breaks the norm. Our North America editor, Steve Wood, is part of Goofy Flight - named after his GlaStar which has the special registration N-600FY. Steve even has 'goofy' smoke on his airplane which can 'puff' or be continuous at whim. Everyone has great fun at Spruce Creek Fly-in which perhaps explains why there's a sign inside the main entrance which reads *"Caution - Children And Adults At Play"*.



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Photos by Gary Rosier



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Spot Landing Contest

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ELETRE: UNLEASH THE FUTURE - GLOBAL NEWS BROADCAST FROM LOTUS, INCLUDING PRICES, SPECS AND MORE ABOUT EAGERLY ANTICIPATED HYPER-SUV

Hethel, UK 25 October 2022 Lotus has unveiled the prices and specifications for one of the most eagerly anticipated models in its history – the award-winning Eletre Hyper-SUV. The news was delivered during Lotus Eletre: Unleash the Future, a global broadcast watched by tens of thousands of customers and fans around the world.

The Eletre is the all-new and all-electric lifestyle model from Lotus, as it continues its transformation from a UK sports car company to a global performance car business and brand.

It is the first of a new breed of pure electric SUVs. It takes the core principles and Lotus DNA from almost 75 years of sports car design and engineering, evolving them into a desirable all-new lifestyle car for the next generation of Lotus customers.

The company' famed expertise in the fields of ride and handling, steering and optimised aerodynamics, have been carefully and respectfully evolved. The Eletre takes the soul of the latest Lotus sports car – the Emira – and the revolutionary aero performance of the all-electric Evija hypercar, and reinterprets them as a Hyper-SUV.

With a world premiere in London in March this year, the Eletre is 'orn British, Raised Globally' a collaboration between highly experienced and dedicated Lotus teams in the UK, Germany and China. They include the product definition and attributes teams at Hethel, the home of Lotus since 1966; the design teams at Lotus Tech Creative Centre (LTCC) in Coventry; the engineering teams at Lotus Tech Innovation Centre (LTIC) in Raunheim; and the Lotus Tech engineering and manufacturing teams in Wuhan.

Matt Windle, Group Vice-President and Managing Director, Lotus Cars, commented: "onfirmation of the pricing and specs of the Lotus Eletre is a key moment in the transformation of Lotus through our Vision80 strategy. We know from media and customer feedback that they'e hugely excited by the arrival of this car – indeed, the Eletre has already won awards as 2023' 'ost excited to see'new model. Customer deliveries start during the first half of next year."

He added: "he launch of the Eletre is the natural next step for Lotus. Two-seater sports cars are not for everyone, and we want to offer a Lotus for every stage of your life. The Eletre is the start of that."

Already thousands of customers around the world have placed deposits to secure their Eletre. Three different versions of the car are available –Eletre, Eletre S and Eletre R –with the choice of two powertrains. Eletre and Eletre S feature the 450 kW / 603 hp single-speed version, with a maximum range of 600 km (373 miles). The Eletre R comes with the flagship 675 kW / 905 hp dual-speed system and a maximum range of 490 km (304 miles). Torque figures are 710 and 985 Nm respectively, delivering a 0-62 mph (0-100 km/h) performance of either 4.5 or 2.95 seconds. The 112 kWh battery for both versions has a charging time (10%-80%) of just 20 minutes using a rapid charger.

As part of the Unleash the Future global news broadcast, key Lotus personnel explained the company is embarking on an ambitious future based on three key pillars –Life, Tech and Speed. They also previewed how the world' first Hyper-SUV, the Eletre, measures up against the original Lotus EV hypercar, the Evija.

As part of the Tech story, Lotus announced more details of its advanced 'igital cockpit'cabin on the Eletre, including the name of the Operating System – Lotus Hyper OS. Lotus is using 'nreal Engine'technology from the gaming industry, allowing the Lotus User Experience / User Interface (UX/UI) team to create next-generation real-time 3D content and experiences. The Eletre boasts state-of-the-art processing power which includes two Qualcomm 8155 System-On-Chips.



Aston Martin DB5 stunt car raises £2.9 million at Sixty Years of James Bond charity auction

* Three Aston Martin models raise more than £.5million for charities at Sixty Years of James Bond auction

* DB5 replica stunt car achieves £.9million at Christie' in London, benefitting The Prince' Trust and The Prince of Wales' Charitable Fund' support of charities assisting the Intelligence Agencies and UK Special Forces

29 September 2022 - London, UK: An Aston Martin DB5 replica stunt car featured in No Time To Die (2021) has raised £,922,000 for good causes in a charity auction at Christie' to celebrate 60 years of the James Bond films.

One of three special Aston Martin models included in the multi-million-pound charity auction, the replica DB5 donated by Aston Martin Lagonda was the star lot on the night, accelerating beyond the auctioneer' estimate before being sold to a telephone bidder.

This stunt car is one of eight exclusively built and engineered by Aston Martin for No Time To Die, with each car uniquely modified for their individual role on screen. The replica stunt DB5 car sold at Christie' features operational gadgets including a rotating digital numberplate, retractable headlights, pop-out machine guns and firing prop bomblets.

In the film, the DB5 features in a thrilling opening chase sequence, driven by James Bond (Daniel Craig), with Madeleine Swann (Léa Seydoux) at his side, through Matera, Italy. The car demonstrates its incredible dynamic capabilities as the pair drive at high speed through the town to shake off their pursuers before Bond deploys the hidden machine guns.

The proceeds of the DB5 auction will benefit The Prince' Trust in its work with young people; The Prince of Wales's Charitable Fund in support of charities assisting serving and former members of the UK Intelligence Agencies; and three charities supporting serving and former members of the UK Special Forces.

Marek Reichman, Executive Vice President and Chief Creative Officer of Aston Martin said: "ston Martin is incredibly proud to be part of James Bond' DNA and we are delighted to celebrate this 60th anniversary with the sale of a truly unique Aston Martin model that we created for No Time To Die. It is fantastic that the sale of this special car will now hugely benefit several good causes which are close to our heart, playing our own part in the long-standing tradition of the James Bond franchise supporting charitable causes."



Attended by Bond Actors Dali Benssalah and Samantha Bond, the auction also saw the sale of a 1981 Aston Martin V8 which was driven by Daniel Craig as James Bond in No Time To Die. The iconic model, which was the fastest four-seat production car of its day and Britain' first true 'upercar' is similar to that used in the 1987 Bond film, The Living Daylights.

Donated by EON Productions, the Aston Martin V8 fetched £30,000 to support the work of UNHCR, the UN Refugee Agency.

The auction also saw the sale of an Aston Martin DBS Superleggera 007 Edition, one of 25 examples created by Aston Martin to celebrate the car' inclusion in No Time To Die. Featuring a unique plaque with etched signatures from producers Michael G. Wilson and Barbara Broccoli and actor Lashana Lynch, who drove the same Aston Martin model as Nomi in the film, the car raised £03,200 to support the Royal Foundation of The Prince and Princess of Wales.

The live auction featured 25 lots comprising vehicles, watches, costumes and props many of which relate to the 25th Bond film, No Time To Die, with the final six lots offered representing each of the six actors who have played Bond. An online sale featuring 35 lots spanning the 25 films, continues until James Bond Day on 5 October 2022 –the 60th anniversary of the world premiere of the first James Bond film Dr. No in 1962.

CELEBRATING HISTORY: BENTLEY OPENS NEW HERITAGE GARAGE

(Crewe, 11 October 2022) Part of the original Crewe factory site has been repurposed as a home for some of the most historically significant Bentley models from the last 103 years of company history. The Heritage Garage complements the existing Bentley Lineage exhibition in CW1 House, providing a showcase for the 42-car-strong Bentley Heritage Collection. The Heritage Garage will house 22 cars from the Collection, currently spread from 1919 onwards but eventually focusing on those members of the fleet built in Crewe – everything from 1946 onwards.

The new facility means that every member of Bentley's Heritage Collection is now kept on the Bentley campus, for the first time ever. The Collection has undergone a significant development and expansion programme over the last 18 months, and now represents the entire company history.

Visitors to Crewe, whether customers, VIPs or media guests, will now be able to view an unbroken chain of Bentley production models, all kept in perfect working order and road-legal condition. By next summer, the Collection will be split across three different areas. Significant Cricklewood models (1919-31) and Derby-era Bentleys (1931-39) will live in a soon-to-be-redeveloped display in CW1 House, while the Heritage Garage houses Crewe-built models. Meanwhile, the eight motorsport cars in the Collection (including Speed 8s from Le Mans, Ice Speed Record and Pikes Peak cars and GT3 racers) will form a separate display.



A New Showcase

The Heritage Garage is located within the original 1930s brick-built factory and was previously the 'project forum', where models such as the 2003 Continental GT were planned and developed. The light and airy setting is at heart of the factory and is visible to Colleagues as they walk through the factory. The Garage is also being used as an event space for external presentations and internal briefings, surrounded by the beautiful line-up of vintage Bentleys.

As the company continues its Beyond100 journey of transformation, the Heritage Collection plays an important role by providing a clear picture of where the Bentley of today comes from. Heritage Collection vehicles are also shown and driven at major events throughout the world, from Pebble Beach to Mille Miglia.

The Head of Bentley's Heritage Collection, Mike Sayer, comments:

"Having now rebuilt the Collection to fully chart our history, we have an ongoing commitment to add to it with each significant new model we launch. For example, the Collection now includes the 2019 Bentayga Hybrid, which was both the first-ever plug-in hybrid Bentley and an important step in our 'Beyond100' strategy towards electrification. As we continue to evolve, we want our guests and colleagues from all areas of the company to be able to share the rich history of Bentley Motors. The Heritage Garage brings that history to vivid life, and means we can actively reference our past while setting the course for our future."

MEET THE FERRARI PUROSANGUE

For the first time in its 75-year history, Ferrari launches a four door, four-seater car – where colossal power meets revolutionary styling.

13 September 2022

Amid massive anticipation Ferrari has launched the mighty Purosangue, a car that promises to change the landscape of performance vehicles across the globe. Powered by a V12 naturally-aspirated engine, the hallmarks of the Prancing Horse's most powerful sports cars are present and correct, this time coupled with practicality and a raised driving height.

Named Purosangue after the Italian for 'thoroughbred', the car has been the subject of rumour and conjecture for many years, as the public and media alike speculated on what Maranello might have up its sleeves.

The Purosangue is Ferrari's first ever four-door, four seater car, marrying increased space with the company's famed performance

Now the answer is here, in all its four-wheel drive, front-engine glory, with more power than any other car in the Crossover segment. Designed to be as aerodynamic as possible, the Purosangue features a raft of innovations, from the latest in vehicle dynamic control systems to the world debut of Ferrari active suspension technology using Multimatic's True Active Spool Valve (TASV) System.

Unique rear-hinged doors allow passengers to get in and out more easily, while keeping the compact design intact



One feature of design that's likely to have everyone talking is the fact that the Purosangue features rear-hinged passenger doors, or welcome doors, crafted in order to allow people to get in and out of the car as smoothly as possible without needing to increase the size of the vehicle. Elsewhere, customers will find the largest boot ever on a Ferrari, heated seats front and back and a Burmester high-end audio system as standard.

The performance numbers are staggering; 0-62mph is seen off in just 3.3 seconds, while the Purosangue will rocket from 0-125mph in an incredible 10.2 seconds. The 6.5 litre, V12 engine has been painstakingly designed to offer the driver a seemingly never-ending amount of power under their right foot, with the eight-speed, dual clutch transmission and cylinder heads derived from the fearsome 812 Competizione. The soundtrack produced is nothing short of jaw-dropping.

Sustainability was key for Ferrari in designing the Purosangue, in fact, 85 percent of the launch trim for the car was sustainably produced: the fabric roof-lining is made from recycled polyester, the lush carpet is made from polyamide recycled from fishing nets salvaged from the oceans and newly formulated Alcantara®, is also derived from recycled polyester.

Meanwhile the Purosangue's interior is a combination of luxury materials and surprising space, with a focus on comfort and elegance.

With a driver cockpit inspired by the SF90 Stradale, the Ferrari sports car DNA is still present, while the front passenger will feel just as engaged with the driving experience, as their space features a dedicated 10.2" screen showing the performance figures as they happen.

With handling and performance completely unprecedented in a car of this size and shape, combined with Ferrari's signature iconic style seen in its GT cars, the Purosangue is truly a car like no other.

Exclusive "F1 Edition" for E PERFORMANCE Saloon and Estate from Mercedes-AMG

Oct 25, 2022 - Affalterbach

Time-limited special model of the performance hybrid available from market launch

The new Mercedes-AMG C 63 S E PERFORMANCE (combined fuel consumption, weighted: 6.9 l/100 km; combined CO2 emissions, weighted: 156 g/km; combined electric energy consumption, weighted: 11.7 kWh/100 km)[1] is a real gamechanger in the 55-year history of AMG. With know-how from Formula 1™, it brings state-of-the-art technologies from motorsport to the road. The innovative hybrid concept with an electric motor and AMG high-performance battery on the rear axle combines a superior system output of 500 kW (680 hp) with impressive driving dynamics and high efficiency. This makes the Mercedes-AMG C 63 S E PERFORMANCE the perfect ambassador for the Future of Driving Performance. With the exclusive exterior and interior features of the special "F1 Edition" model, Mercedes-AMG is now making the electrified future even more visible.

The "F1 Edition" is available for the Saloon and Estate for one year from the start of sales. The exclusive MANUFAKTUR alpine grey uni paint finish is a striking distinguishing feature. It is combined with foiling on the vehicle flanks consisting of the AMG logo and colour gradient from grey to black. Red trim lines on the sides and front and rear aprons add further colour accents. The 20-inch AMG forged wheels in a 5-twin-spoke design are painted matt black. The red rim flanges provide an attractive contrast and thus follow the colour scheme of the wheels of the Official FIA F1 Medical Car™ from Mercedes-AMG.

The AMG Aerodynamics Package, developed in the wind tunnel,

improves handling characteristics at high speeds and enhances the dynamic visual impression. The aerodynamic elements include the larger front splitter, the spoiler lip on the boot lid (Saloon only), the redesigned trim on the side members and the additional diffuser board.

The AMG Night Package I and the AMG Night Package II also enhance the motorsport appearance of the "F1 Edition". The front splitter, the trim elements in the front wings, the outside mirror housings, the beltline trim strip and the window surrounds are all finished in high-gloss black. In addition, the radiator grille louvres, the trim strip in the rear apron, the twin tailpipe trims of the AMG exhaust system and the model badge on the boot lid are all finished in black chrome. The AMG fuel filler cap in silver chrome with "AMG" lettering also emphasises the special status of the edition.

The interior is characterised by the contrast of black and red. The AMG Performance seats are particularly refined with upholstery in Exclusive black nappa leather with red decorative topstitching and embossed AMG emblems in the front head restraints. They follow the sporty look just like the seat belts in red and the exclusive AMG carbon trim elements with red thread. The AMG Performance steering wheel in nappa leather / DINAMICA microfibre with red decorative topstitching and the AMG door sill trims with red illuminated "AMG" lettering are a perfect match. The finishing touches are the exclusive Edition badge in the interior and specific AMG floor mats with red decorative topstitching and F1 logo.

To protect the valuable vehicle, each customer receives a customised AMG Indoor Car Cover with F1 logo. With its breathable outer panelling made of tear-resistant synthetic fibre fabric and antistatic inner fabric made of flannel, it protects the vehicle in the garage from dust and scratches.

DEFENDER RALLY SERIES BY BOWLER 2023 UK CHAMPIONSHIP LAUNCH

21 OCTOBER 2022

Bowler announces the Defender Rally Series for 2023

Following a hugely successful first season of exciting and close fought competition, off-road performance specialists Bowler have today announced the Defender Rally Series for 2023.

The Defender has proven to be an incredibly tough, durable and capable platform from which to grow the series in the UK and beyond. Designed for novices and competition veterans alike, the Defender Rally Series by Bowler consists of 12 teams taking part in nine events, including seven competitive rounds in identical Defender rally cars. After the first private round, fully supported teams participate in six rounds of public events in which they will develop both the driving and organisational skills required of open competitive motorsport.

Building on the popularity of the Tata Elxsi Bowler Defender Challenge for 2022, the Defender Rally Series by Bowler has been specifically designed to offer entrants the chance to gain rally motorsport experience and know-how, facilitating progression to rally-raid events. Bowler can offer the necessary support and training enabling entrants to achieve the correct licencing in order to compete in the UK and internationally.

The UK Championship provides an inclusive team atmosphere with full technical support on hand at every event. The professional presence of the team, with comprehensive on-event spares support and team hospitality area creates a true paddock within the paddock and underlines Bowler's unique proposition and commitment to the sport. As a result, the camaraderie among current teams has been exceptional while still remaining highly competitive, with demand continuing to grow within the UK and overseas.

Packages for the 2023 UK Championship will start at £108,334 (plus VAT). This includes purchase and full ownership of a brand-new, fully converted rally car, based upon the latest road registered model year Defender 90 P300, management through nine events, including seven competitive championship rounds with full works support consisting of a dedicated team of race technicians, event hospitality, professional guidance, access to a fully stocked spares container and support unit, plus training. Competition organiser race entry fees are additional to the Bowler package.

A number of additional support options are available, these include Arrive and Drive whereby the rally car is entirely managed by Bowler for the duration of the 2023 UK Championship; cars are professionally managed, cleaned, inspected, repaired where required, stored between competitions and delivered to each round ready to race. Rounds take place in remote areas around the UK so this option is particularly attractive for time poor or international drivers. Further options include licence development and bespoke training delivered by a professional rally driver.

"The 2022 Defender Bowler Championship has exceeded expectations on all fronts. As we anticipated, the latest generation Defender has proven to be a highly capable and extremely tough rally car which continues to surprise and thrill anyone who has experienced it. It has delivered incredibly close competition amongst the teams whilst still competing aggressively against the competition in the open rounds. Above all, the team camaraderie and relationships formed around the Championship have been a highlight which has attracted many new interested customers."

CALUM MCKECHNIE
BOWLER GENERAL MANAGER



GONE CRUISIN'

Gary's Hot Rods & Cruisers









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1931 Rolls-Royce 20/25
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Savannah
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8
6
STP
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Photos by Gary Rosier



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THE MEASURED

MILE

FROM THIS POINT TO EXACTLY 5280 FEET TO THE SOUTH ALL THE FAMOUS DAYTONA BEACH AUTOMOBILE INTERNATIONAL SPEED RECORDS HAVE BEEN SET.

THERE HAVE BEEN 80 OFFICIALLY RECOGNIZED AUTOMOBILE SPEED RECORDS ESTABLISHED ON THESE SANDS. HERE WE CAN GIVE YOU BUT A FEW.

The Day	The Man	The Speed
March 7 1935	Sir Malcolm Campbell	276 M.P.H.
March 11 1929	Sir Henry Segrave	231 M.P.H.
April 27 1920	Tommy Milton	156 M.P.H.
Feb. 12 1919	Ralph DePalma	149 M.P.H.
March 16 1910	Barney Oldfield	131 M.P.H.
Jan. 27 1904	W.K. Vanderbilt	92 M.P.H.
Feb. 26 1903	Alexander Winton	68 M.P.H.

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