

Weekly Aviation Headline News

WORLD NEWS

Pegasus launches flights to Sharjah

Low-cost carrier Pegasus Airlines is adding Sharjah to its flight network. Sharjah will be Pegasus' third low-cost to the UAE, as the airline also serves Dubai and Abu Dhabi from London Stansted. Sharjah is often considered as the UAE's 'cultural capital'. With the addition of Sharjah to its network, Pegasus now flies to a total of 105 destinations in 40 countries.

Kenya Airports first to adopt TIACA cargo service quality tool

Kenya is set to become the first country in the world to adopt TIACA's new Cargo Service Quality (CSQ) tool nationwide, in a bid to improve standards at all airports across the country. Kenya Airports Authority (KAA) is aiming to implement the online tool at all Kenyan cargo hubs by mid-next year, allowing forwarders to rate and review the service quality they receive at airports, which can then in turn use the data to drive up performance.

L3 launches new female pilot scholarship opportunity

L3 Commercial Aviation announced the launch of the L3 Pilot Pathways Female Scholarship programme, which will provide 10 scholarships to female candidates applying for its Integrated Airline Transport Pilot License (ATPL) training programme. Within 2019, the programme will award 10 successful female candidates a £25,000/€29,000 sponsorship towards the cost of their training. "We are passionate about encouraging more diversity onto the flight deck. It's a significant issue for the industry," said Robin Glover-Faure, President of Commercial Training Solutions.



RAM will join the alliance from 2020.

Photo: Boeing

Royal Air Maroc to join Oneworld

Airline becomes first full member from Africa

Royal Air Maroc is to become the latest member of the Oneworld alliance. Its election as a Oneworld member designate was announced as the Chief Executives of the alliance's 13 current member airlines gathered in New York for their year-end Governing Board meeting, just weeks before the alliance celebrates the 20th anniversary of its launch.

Royal Air Maroc is expected to be implemented into Oneworld in mid-2020, when it will start flying alongside the other global members. Its regional subsidiary Royal Air Maroc Express will join as a Oneworld affiliate member at the same time.

While Southern Africa's Comair,

which flies as a franchisee of British Airways, has been a Oneworld affiliate member since the alliance launched in February 1999, Royal Air Maroc will be Oneworld's first full member from Africa – the only

"Africa is the last major region where Oneworld does not have a full member airline."

Alan Joyce, Oneworld Governing Board Chairman

continent, apart from Antarctica, where the alliance has, until now, had no full member.

Royal Air Maroc is the largest unaligned carrier in Africa – with a transformational strategy well underway to develop it quickly into a truly global airline and the conti-

nent's leader in terms of both size and quality.

It carried 7.3 million passengers last year on a fleet of 55 aircraft, with a network that currently connects

its Casablanca base with 94 destinations in 49 countries across Africa, Europe, the Middle East and North and South America, including Oneworld hubs Doha, London Heathrow, Madrid, Moscow

Domodedovo, New York JFK and Sao Paulo.

Its schedule today will add 34 new destinations and 21 countries to the Oneworld map, taking the alliance's network to 1,069 airports in 178 countries and territories.

Continued on page 3



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...continued from page 1

Under its ambitious five-year plan, it plans to expand its fleet significantly, carrying 13 million passengers a year across a global network serving 121 destinations in 68 countries. This will add another 15 destinations and nine countries to the alliance network – giving the alliance a total of 1,084 destinations in 187

countries and territories.

Oneworld Governing Board Chairman Alan Joyce, Group CEO of Qantas, said: “We’re pleased to welcome Royal Air Maroc to Oneworld. Africa is the last major region where Oneworld does not have a full member airline

- and has one of the fastest predicted air travel growth rates over the next few decades. Royal Air Maroc will deliver greater value for more customers worldwide as we expand our alliance network to a new region.”

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Ilmor Engineering applies motorsport technologies to improve GA aero engine for EU Clean Sky 2 program

Ilmor Engineering has improved the power density of a General Aviation diesel engine by applying technologies and design solutions honed in motorsport to successfully deliver an EU Clean Sky 2 (CS2) program, funded by the Horizon 2020 research and innovation project aimed at reducing CO2 gas emissions and noise pollution. Northampton, UK-based Ilmor Engineering is world renowned for producing championship winning engines for Formula 1 and IndyCar and has a growing aerospace capability which includes the development of a UAV engine and a project for Boeing that earned Ilmor a Boeing Silver Supplier Award. The competitively awarded program had two interdependent aims. The first and very demanding challenge was to improve power density on a certified engine by increasing power and reducing weight while also maintaining fuel efficiency. The second was to identify and apply new design techniques and technologies; the project’s remit was not to create an airworthy, certifiable power plant. Ilmor collaborated with SMA, the Piston Engine Division of Safran Aircraft Engines, which supplied the EASA-certified SR305-230E engine, a 227hp, four-cylinder, four-stroke, horizontally opposed engine most commonly fitted to the Cessna 182. Ilmor met the initial goal to reduce mass and increase cooling performance

NAC signs agreement to lease two Embraer E195 and one Embraer E175 aircraft to Air Burkina



Air Burkina

Photo: AirTeamImages

Nordic Aviation Capital (NAC) has committed to lease two Embraer E195s and one Embraer E175 to Air Burkina, the first of which was delivered in November 2018 to a delegation of the airline led by Transport Minister Vincent Dabilgou and CEO Blaise Sanou. The remaining E195 and the E175 are planned to join Air Burkina’s fleet in December 2018 and January 2019, respectively. Air Burkina intends to use the aircraft to replace its current fleet of two Embraer E170 aircraft and to expand its network and frequencies. Air Burkina is the national airline of Burkina Faso, operating scheduled services from its main base at Ouagadougou Airport to one domestic destination, Bobo-Dioulasso, as well as regional services to Togo, Benin, Mali, Niger, Côte d’Ivoire, Senegal and Ghana.

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to permit the engine to operate at a higher power output for the duration of its life. The overall mass of the engine was reduced by 2.6%, mostly by replacing the iron liners with a plasma bore coating. The Ilmor team designed new components and redesigned existing components to meet the increased demand on the engine, minimizing the number of these components by 35% and thus improving machinability and serviceability. The team also identified that a possible further mass reduction of 1.6% is available through the use of a steel piston and redesigned con-rod. Just less than 100 hours of test bench running in France proved the power increase and basic reliability, at the same time highlighting elements that needed further refinement, many of them already predicted by the Ilmor team. Ilmor was able to introduce design solutions, technologies and materials used in motor-sport's constant quest for high power output, light weight and fuel efficiency. Many are unfamiliar to the aerospace industry and the CS2 program demonstrated they can contribute towards improving the performance and efficiency of the next generation of aero diesel engines.

Air Lease Corporation takes delivery of its first U.S.-manufactured A321 aircraft

Air Lease Corporation (ALC) has taken delivery of its first U.S.-produced A321. The aircraft, delivered from the Airbus U.S. Manufacturing Facility in Mobile, Alabama, will be leased to Denver-based Frontier Airlines and features Xavier the Mountain Goat on its vertical tail and Sharklets. The aircraft is also the first U.S.-made A321neo to enter Frontier's fleet. The airline has previously taken direct delivery of six A320neos from Airbus' Mobile production facility. ALC is the eighth U.S.-based customer to receive aircraft from Airbus' Alabama-based A320 Family production facility.

Rolls-Royce launches LifeKey enhancement to LessorCare, with Jackson Square Aviation and CDB Aviation as first customers

Rolls-Royce has launched LifeKey, an important new addition to its pioneering LessorCare service which sets new standards in aircraft lessor support. The first LifeKey customers are Jackson Square Aviation and CDB Aviation. LifeKey is a central component of LessorCare, which was launched in January to offer a single, comprehensive agreement for all Trent engine types. LessorCare provides faster and

Fiji Airways takes delivery of first 737 MAX airplane

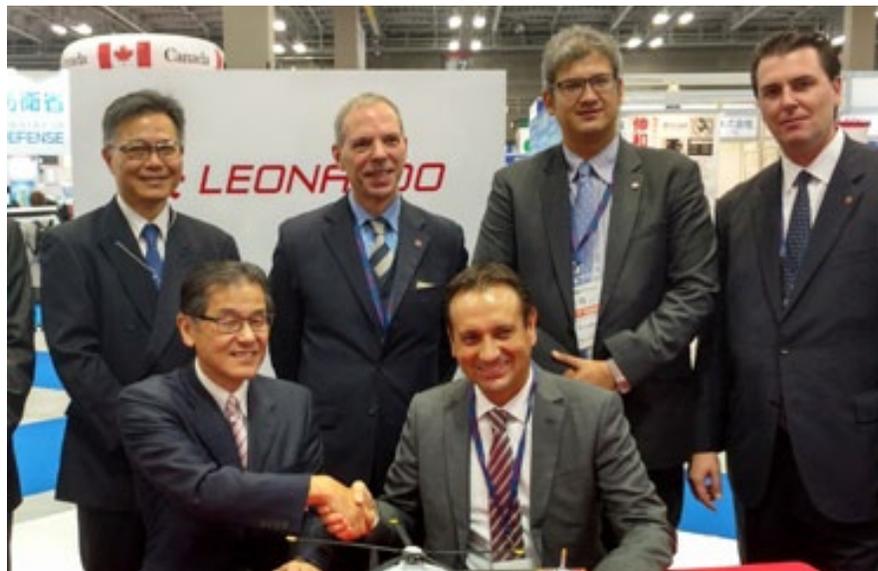


Boeing delivers the first 737 MAX to Fiji Airways

Photo: Boeing

On November 30, Boeing delivered the first 737 MAX to Fiji Airways, which plans to use the fuel-efficient, longer-range version of the popular 737 jet to expand and modernize its single-aisle fleet. Fiji Airways plans to take delivery of five MAX 8 airplanes, which will build on the success of its fleet of Next-Generations 737s. The MAX incorporates the latest technology CFM International LEAP-1B engines, Advanced Technology winglets, and other airframe enhancements to improve performance and reduce operating costs. In addition to modernizing its fleet, Fiji Airways will use Boeing Global Services to enhance its operations. These services include Airplane Health Management, which generates real-time, predictive service alerts, and Software Distribution Tools which empowers airlines to securely manage digital ground-based data and efficiently manage software parts.

Mitsui Bussan Aerospace of Japan signs four-helicopter contract



Contract signing between Mitsui Bussan Aerospace and Leonardo

Photo: Leonardo

Leonardo and Mitsui Bussan Aerospace, the official distributor in Japan for the AW169, AW139 and AW189 helicopter models, have signed a contract for four additional aircraft during an official ceremony held at the Japan Aerospace 2018 exhibition. This contract further strengthens the partnership between Leonardo and Mitsui, and is a key factor in the continued growth of Leonardo's fleet in a country where the AW139 is the best-seller in its segment. Last March, Mitsui Bussan Aerospace and Leonardo renewed their Distributorship Agreement for three years. The partners also renewed a Basic Ordering Agreement to increase spare parts stock, further strengthening customer support services.

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easier access to lessor services, offers the incorporation of services today and for the future, and maximizes possible return on investment. Rolls-Royce has signed LessorCare contracts with 11 customers, covering almost half of its leased wide-body fleet. Enhancing and replacing the industry-leading Operating Lessor Engine Restoration Agreement (OPERA), LifeKey complements LessorCare by offering unique improvements in terms of greater visibility, accessibility, portability and liquidity.

Pratt & Whitney Canada receives Transport Canada approval for significant cycle limit increases on PT6A-140 engines

Pratt & Whitney Canada has received approval from Transport Canada to increase cycle limits on its PT6A-140, -140A and -140AG engines. These increases, made possible through comprehensive parts testing and model analyses, will extend the life of Low Cycle Fatigue (LCF) parts such as the power and compressor turbine disks and the impeller. “We are committed to exploring and developing innovative solutions that keep our customers flying longer and at reduced operating and maintenance costs,” said Nicholas Kanellias, Vice President, General Aviation at Pratt & Whitney Canada. “For the vast majority of PT6A-140 series operators, these extensions will push the requirement to replace LCF parts further into the future.” An engine cycle is counted every time an engine is started, flown and then shut-down. An abbreviated cycle is counted when an engine remains running between flights. The cycle limits for the PT6A-140-series engines have now been increased by up to 60 percent for the following parts: from 12,000 cycles to 16,000 cycles for the power turbine disk, from 10,000 cycles to 16,000 cycles for the compressor turbine disk and from 19,000 cycles to 29,000 cycles for the impeller. Also, as it pertains to the power turbine disk, the number of abbreviated cycles needed to count as a full cycle has increased from two to five.

Vallair purchases four CFM56-5A engines from Air France

Vallair, the aircraft trading, leasing and specialist MRO organization has purchased four CFM56-5A engines from the French flag carrier Air France. The engines will be torn down at Vallair’s engine facility in Chateauroux, France. Vallair recently added to its capabilities by setting up a fully-equipped, multi-bay engine strip and ‘hospital’ workscope operation to

Air Lease Corporation delivers first of four new Boeing 737 MAX 8 aircraft to Cayman Airways



Cayman Airways takes delivery of first of four 737 MAX 8 aircraft from ALC

Photo: ALC

Air Lease Corporation (ALC) has delivered one new Boeing 737 MAX 8 aircraft featuring CFM International LEAP-1B27 engines on long-term lease to Cayman Airways (KX). This Boeing 737 MAX 8 is the first of four 737 MAX 8 aircraft confirmed to deliver to Cayman Airways through 2020 from ALC’s order book with Boeing. With this new ALC aircraft, Cayman Airways will be the first 737 MAX 8 operator in the Caribbean and the aircraft will feature a new addition to the livery to showcase the airline’s first 737 MAX. “ALC is pleased to announce this new Boeing 737 MAX 8 delivery with Cayman Airways,” said Steven F. Udvar-Házy, Executive Chairman of Air Lease Corporation. “With this new 737 MAX 8 and the additional three aircraft set to deliver from ALC, Cayman Airways is successfully modernizing its fleet with the most technologically advanced, fuel-efficient aircraft to enhance the airline’s overall operations, maximize customer comfort and bring a new standard of excellence for travelers to and from the Cayman Islands.”

Air Lease Corporation places two new Airbus A321neo aircraft on lease with Air Macau



Air Macau

Photo: AirTeamImages

Air Lease Corporation (ALC) has signed a long-term lease agreement for two new Airbus A321neo aircraft with Air Macau. Featuring Pratt & Whitney PW1133G engines, the aircraft will deliver from ALC’s order book with Airbus in November 2019 and the first quarter of 2020. “ALC has worked closely with Air Macau’s management team since 2010 and we are pleased to strengthen our long-standing relationship with the airline with this announcement today,” said Steven F. Udvar-Házy, Executive Chairman of Air Lease Corporation. “We are committed to providing the most modern, fuel-efficient aircraft to ALC customers and these two new A321neo aircraft will significantly enhance Air Macau’s fleet operations.”

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support its customers' engine requirements and help reduce direct maintenance costs and downtime. This facility, located within Vallair's Disassembly & Logistics centre also in Chateauroux, is now fully operational and offers a comprehensive service including full teardown of engines, module disassembly and reassembly, light repairs, borescope inspections and blending. This transaction marks Vallair's first comprehensive engine teardown operation in the new facility. All parts including LPT, HPC, HPT and fan modules will be sold on.

ATSG delivers seven Boeing 767s during fourth quarter

Air Transport Services Group (ATSG) has delivered seven leased freighters through its Cargo Aircraft Management (CAM) and ATSG West Leasing subsidiaries during the fourth quarter of 2018, pointing to continued strong demand for its converted Boeing 767 freighter aircraft. Amerijet International Airlines of Miami, Florida, took delivery of a Boeing 767-300 converted freighter. CAM now leases seven 767 freighters to Amerijet.

Cargojet Airways of Mississauga, Canada, took delivery of two more Boeing 767-300 converted freighters, bringing the total number of aircraft leased to CargoJet to four.

SkyTaxi of Wroclaw, Poland, took delivery of its first Boeing 767-200 converted freighter, with an option to lease a second freighter in 2019. West Atlantic AB of Gothenburg, Sweden, took delivery of a Boeing 767-200 converted freighter. This is West Atlantic's sixth aircraft leased from ATSG.

Also, two Boeing 767-300 freighters were delivered internally to ATSG subsidiary airline Air Transport International, to be operated for external customers under ACMI agreements that extend well into 2019. Additionally, a DHL-leased 767-200 freighter was transferred to Bahrain from DHL's US air cargo network. DHL now has six ATSG 767-200s in the Middle East. ATSG's in-service fleet now comprises ninety-one aircraft, including thirteen from its recent acquisition of Omni Air International. ATSG's global expansion in 2018 has been significant, accomplishing eight 2018 deliveries outside of the United States to Europe, the Middle East, Asia and Canada.

Fly Leasing to sell 12 aircraft

Fly Leasing (FLY) has contracted to sell 12 narrowbody aircraft from its portfolio. The 12 aircraft have a weighted average age of 10.6 years and an average remaining lease term of

First Embraer E190-E2 for Air Astana arrives in Kazakhstan



The first Embraer E190-E2 with special livery for Air Astana

Photo: Embraer

The first new generation Embraer E190-E2 for Air Astana had arrived at Nursultan Nazarbayev International Airport in Astana on December 3, following ferry flights from the manufacturer's factory in São José dos Campos, Brazil. This is the first of five Embraer E2 aircraft scheduled to be delivered to Air Astana following an order originally placed in August 2017. Air Astana currently operates a fleet of nine Embraer E190 aircraft on domestic and low-density regional services, with the first aircraft having entered service in 2011. The new generation Embraer E190-E2 aircraft will gradually replace older Embraer E190s in its fleet. The new aircraft features a special Air Astana "Snow Leopard" livery, which is intended to draw global attention to the threat of extinction faced by this beautiful large wild cat which is a native of the mountain ranges in southern Kazakhstan. Air Astana seeks to improve ecological protection for endangered species like the Snow Leopard, as well as more widely preserving the environment. The twin-engine, single-aisle Embraer E190-E2 belongs to the family of upgraded E-Jets, which offer lower operating costs, emissions and noise levels, with a range of more than 5,000 km.

3.2 years. FLY anticipates the sales will generate in excess of US\$125 million of cash after repaying debt and satisfying other transaction-related expenses. It is expected that the sales will be completed by March 31, 2019. "These sales meet several strategic objectives, particularly reductions in our leverage and our lessee concentrations. We expect to announce more sales over the coming months as we prepare for our growth pipeline of more than US\$2 billion of A320neo family aircraft that begin delivering in 2019," said Colm Barrington, CEO of FLY. Following these sales, FLY's fleet will comprise 104 aircraft with an average age of less than seven years and on lease to 44 airlines in 24 countries. FLY has signed commitments to acquire 21 new A320neo family aircraft delivering between 2019 and 2021 and has options to acquire 20 more A320neo family aircraft delivering between 2019 and 2025.

Avolon orders 100 Airbus A320neo family aircraft valued at US\$11.5 billion

Avolon, the international aircraft leasing company, has announced an order for 100 Airbus A320neo family aircraft valued at US\$11.5 billion at current list prices. Dómhnaíl Slattery, Avolon CEO, commented: "Our order for 100 A320neo family aircraft builds on our leading industry position and reflects our ambition to become the global leader in the sector. We are locking in growth well into the next decade and building on our existing order book of exclusively new technology aircraft. The scale of the order reflects the long-term commitment and strategic perspective of our shareholders." "We continue to see robust demand from our customers for the A320neo family. This is consistent with our own market research and global fleet forecast. Our order affirms our belief in the medium-term market outlook and

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the strong growth prospects for our business.” Christian Scherer, Airbus Chief Commercial Officer commented: “This order underscores the market appetite for the efficiency, reliability and passenger appeal of our A320neo family.” “The A320 family of aircraft is a future-proof asset for investors and airlines alike. Avolon’s recent success is a testimony to its leadership’s dedication to our industry. Its commitment to Airbus reflects its profound market insights. I personally look forward to further extending this relationship as we go forward.”

Embraer and NAC sign firm order for three E190 aircraft

Embraer has signed a firm contract for three E190 aircraft with Nordic Aviation Capital (NAC), a global leader in regional aircraft leasing. This agreement was announced as a Letter of Intent (LoI) in July at the 2018 Farnborough Air Show. The firm order has a value of US\$156 million, based on Embraer’s list prices, and will be included in Embraer’s fourth quarter backlog. These new aircraft will join the existing 155 E-Jets currently owned by NAC.

MRO & PRODUCTION NEWS

Boeing, ELG Carbon Fibre find new life for airplane structure material in groundbreaking partnership

Boeing and ELG Carbon Fibre have announced a partnership to recycle excess aerospace-grade composite material, which will be used by other companies to make products such as electronic accessories and automotive equipment. The agreement covers excess carbon fiber from 11 Boeing airplane manufacturing sites and will reduce solid waste by more than one million pounds a year. Carbon-fiber reinforced material is extremely strong and lightweight, making it attractive for a variety of uses, including in the building of the super-efficient 787 Dreamliner and the all-new 777X airplane. As the largest user of aerospace-grade composites from its commercial and defense programs, Boeing has been working for several years to create an economically viable carbon fiber reuse industry. The company improved its production methods to minimize excess and developed a model for collecting scrap material. However, technical barriers stood in the way of repurposing material that had already been “cured” or prepped for use in the airplane manufacturing process. UK-based ELG developed a proprietary method to recycle “cured” composites so they do not have to be

CDB Aviation delivers first of six Airbus aircraft to TAP



TAP Portugal

Photo: AirTeamImages

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., (CDB Leasing), has begun delivery of a fleet of six Airbus aircraft to Portugal’s leading airline, TAP Air Portugal (TAP). The first aircraft delivered to the carrier in November is a new Airbus A321neo, which is part of a lease agreement for a total of four aircraft of the type. The second A321neo is expected to deliver by year-end, with the remaining two aircraft slated for arrival in 2019. In addition, in April 2018, CDB Aviation and TAP entered into a purchase and leaseback agreement for two Airbus A330-900neo aircraft. The two wide-bodies are expected to deliver in the second quarter of 2019.

thrown out. “Recycling cured carbon fiber was not possible just a few years ago,” said Tia Benson Tolle, Boeing Materials & Fabrication director for Product Strategy & Future Airplane Development. “We are excited to collaborate with ELG and leverage innovative recycling methods to work toward a vision where no composite scrap will be sent to landfills.” To prove that the recycling method can be applied on a grand scale, Boeing and ELG conducted a pilot project where they recycled excess material from Boeing’s Composite Wing Center in Everett, Wash., where the massive wings for the 777X airplane are made. ELG put the excess materials through treatment in a furnace which vaporizes the resin that holds the carbon fiber layers together and leaves behind clean material. Over the course of 18 months, the companies saved 1.5 million pounds of carbon fiber which was cleaned and sold to companies in the electronics and ground transportation industries. “Security of supply is extremely important when considering using these materials in long-term automotive and electronic projects,” said Frazer Barnes, managing director of ELG Carbon Fibre. “This agreement gives us the ability to provide that assurance, which gives our customers the

confidence to use recycled materials.” Based on the success of the pilot project, Boeing says the new agreement should save a majority of the excess composite material from its 11 sites, which will support the company’s goal to reduce solid waste going to landfills 20% by 2025. “This collaboration takes Boeing’s commitment to protect the environment to a whole new level. Recycling composites will eventually be as commonplace as recycling aluminum and titanium,” said Kevin Bartelton, 777 Wing Operations leader. Boeing and ELG are considering expanding the agreement to include excess material from three additional Boeing sites in Canada, China and Malaysia. As a result of the partnership, ELG estimates the number of its employees will nearly triple from 39 in 2016 to an expected 112 by the end of 2019 as the recycling market continues to expand.

AAR announces partnership with Napier Park Global Capital

AAR a global aviation aftermarket leader, has announced the expansion of its commercial aircraft asset management activities by partnering with

MRO & PRODUCTION NEWS

Napier Park Global Capital (Napier Park) to create a joint venture that will focus on acquiring late life commercial aircraft. AAR has been appointed the sole servicer for the newly formed strategic alliance. Under the agreement, AAR will bring its extensive aircraft MRO, leasing and trading experience to the role of asset manager. AAR will establish and manage the aircraft portfolio, as well as develop exit strategies. The main focus is on acquiring yield generating assets maximizing returns as aircraft reach the end of operational life. AAR will work with majority partner, Napier Park, to target assets that retain value in the aftermarket once aircraft retire from service. Napier Park is an alternative investment manager that, as of September 30, 2018, managed US\$11.5 billion in capital and will be the majority equity participant in the joint venture. Napier Park manages CLOs, credit and private investments on behalf of institutional investors globally. Napier Park's Real Assets group manages approximately US\$6 billion of equipment assets.

Liebherr-Aerospace to supply NORDAM with anti-ice valves

Liebherr-Aerospace has announced an agreement with U.S.-based NORDAM to develop, manufacture, test and certify anti-ice valves to be used in a NORDAM-developed engine build-up system for A320neos equipped with the Pratt & Whitney PW1100G engine. The contract is considered a major milestone in Liebherr's long-term strategy. According to Nicolas Bonleux, Managing Director & Chief Commercial Officer, Liebherr-Aerospace & Transportation SAS, the valves prevent ice from forming on the engine cowl. They will be manufactured at the company's center of competence for air management systems, then packaged into ship-sets of two pneumatic valves per nacelle, a redundancy designed to prevent engine overheating. "This contract marks a major milestone in our long-term strategy to offer technical solutions for aircraft engine applications, and to continuously extend and consolidate our activities in this market," Bonleux said. "We are happy to support NORDAM as we supply our products to a nacelle provider for the first time."

TAP Air Portugal selects Bucher galleys for first A330-900neo



A330 galleys

Photo: Bucher

TAP Air Portugal has become the world's first airline to fly the new A330-900neo and has selected Bucher galleys to equip the cabins of the new aircraft. The aircraft is the first to feature the new "Airspace by Airbus" cabin concept. Airspace offers flexible zones and innovative design for the cabin crew's workspace and gives passengers a new cabin experience. The development of the Bucher galleys focused on optimizing the crew's operations but also increasing comfort for passengers. The finished interior layout achieves a pleasant ambience while allowing passengers to experience first-class service. Bucher Leichtbau has been given the opportunity to develop and manufacture the galleys for the Portuguese "launching operator". The challenge was to develop galleys that were light, safe and which conformed to the specifications of the new aircraft while also adapting to the customer's unique ergonomic requirements.

FAA approves AerSafe™ for additional Airbus aircraft to comply with fuel tank flammability reduction rule

The Federal Aviation Administration (FAA) has issued an amended Supplemental Type Certificate (STC) to AerSale® for installation of its AerSafe system on Airbus 319 and 320 aircraft (ST04010NY), in compliance with the Fuel Tank Flammability Reduction (FTFR) rule. This amended STC, originally issued for Airbus 321 aircraft, is in addition to AerSale's STCs for the Boeing 767 series (ST03599NY), approved by the FAA in February 2018, as well as the Boeing 737 CL series (ST03589NY) and the Boeing 737 NG series (ST02980NY), both ap-

proved in 2016. Tested and developed to exact tolerances to fill the cavity of the Airbus 319, 320, and 321 center fuel tanks, AerSafe limits the amount of available oxygen that can ignite fuel vapors and prevents sparks from igniting an explosion. AerSafe comes as a complete prefabricated kit that can be installed at any hangar around the world. After initial installation, the system requires no maintenance or spare parts. A limited number of AerSafe kits are currently available for immediate installation. For larger orders, the lead time for ordering AerSafe is currently 60 days versus the one-year lead time for the nitrogen inerting system. The FAA enacted the FTFR rule after the crash of TWA flight 800 off the coast of New

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York. Federal investigations revealed that the accident was the result of an explosion caused by a spark igniting fumes in the center fuel tank of the Boeing 747. The FTFR rule requires fuel tank ignition sources and flammability exposure to be reduced in aircraft most at risk. The FAA provided two options: a flammability reduction means such as nitrogen inerting, or an ignition mitigation means such as AerSafe. These systems must be installed on all passenger aircraft that have high flammability fuel tanks and fly within or into the United States.

FL Technics opens new warehouse in Asia

FL Technics, a global provider of integrated aircraft maintenance, repair and overhaul services, has announced further expansion to the Asia region by opening a new warehouse in Singapore. The operations started at the beginning of November 2018. “The decision to add a warehouse location in Asia enables the company to scale up with customers who are facing increasing time pressure for parts and material delivery fueled by the booming aviation industry and fierce competition in the region,” said Zilvinas Lapinskas, CEO FL Technics. Just recently, FL Technics, together with CALC (China Aircraft Leasing Group Holdings Limited) and ARI (Aircraft Recycling International Limited), launched a Joint Venture with the focus on aircraft base maintenance in Harbin, China, to provide MRO services for aircraft by targeting Asia and Europe regions. Earlier this year, FL Technics Indonesia, based in Jakarta, received the FAA Repair station 145 certificate, which allows for the provision of MRO services to aircraft registered in the United States.

Jetaire nears completion of STC for FAR 25.981 compliance solution for Boeing 777

Jetaire has reported that it is nearing completion of the work for the Supplemental Type Certificate (STC) of its Invicta™ Reticulated Foam Ignition Mitigation system for the Boeing 777. Jetaire’s Invicta system is a center tank flammability reduction and ignition mitigation method solution, currently FAA-certified for the Airbus A320 family of aircraft and Boeing B737, 737NG, B757 and B767 aircraft. The system meets FAA requirements for 14CFR 25.981 and 121.117 compliance. Jetaire is the original developer of the Invicta reticulated foam technology as a means of compliance with FAR 25.981 and received a patent on the system in December 2017 (U.S. Patent 9,849,998). The Invicta technology offers a number of benefits that address FAA compliance demands. In addition, installation of the Invicta system is fast and simple, thus minimizing disruption of customers’

American ramps up in-house engine maintenance



Photo: ©American

With the recent induction of the first CFM56-5B engine from its Tulsa, Oklahoma facility, American Airlines Group (American) has successfully transitioned, in house, maintenance work previously carried out by the engine’s manufacturer, General Electric Co. The move to bring this work in-house was announced a year ago. In a statement, American said: “Bringing this work to Tulsa is a testament to the hard work and talent of the mechanics and support personnel in the engine shop and their goal to be the very best in the industry.” This means American insources more work than any other airline as it also works on the CFM56-7B variant model in Tulsa. 85 additional employees have been taken on at Tulsa to deal with the increased workload as the CMF56-5B powers 151 of the American’s Airbus A320 aircraft, while the -7B variant powers over 300 Boeing aircraft for the carrier. American will induct three more -5Bs this year, with 30 more engine visits planned for 2019. The process of getting the shop ready for the -5B variant of the engine in addition to the -7B work has been a massive undertaking. “You don’t realize what a big project it is to get ready for something like this, especially with things like tooling,” said Jim Blesi, an aviation maintenance technician, in a prepared statement. American Airlines, headquartered in Fort Worth, Texas is the world’s largest airline measured by fleet size operating across a wide international and domestic network, averaging approximately 6,700 flights per day to nearly 350 destinations in over 50 countries. As at July this year, American had a fleet of 956 aircraft, the majority of which being Airbus and Boeing jets, but which also includes Embraer and McDonnell Douglas aircraft.

schedules. Once installed, the Invicta system is essentially maintenance free and completely passive. Approximately 50+ aircraft are currently flying with the Invicta system onboard.

HAECO Private Jet Solutions obtains EASA design organization approval

HAECO Group’s cabin completion specialist, HAECO Private Jet Solutions (HAECO PJS), has obtained EASA Part 21 Subpart J Design Organisation Approval (DOA). The approval enables HAECO PJS to approve minor changes and repairs for parts and appliances covering cabin, structures, and electrical systems on private jets and commercial aircraft. HAECO PJS is one of Asia Pacific’s leading private jet cabin completion centers. With the EASA DOA, HAECO PJS broadens its turnkey cabin design, certification, and completion solutions, delivering more robust assurance to customers on schedule integrity for modifications such as connectivity upgrade, flight deck and cabin interior refurbishment, and livery change. These modifications can be certified in-house by a dedicated team of compliance verification engineers (“CVEs”) and performed on aircraft registered in multiple jurisdictions.

FINANCIAL NEWS

Lufthansa Cargo invests in Berlin startup cargo.one

Lufthansa Cargo is stepping up its cooperation with startup cargo.one and has acquired a minority shareholding in the Berlin company. Lufthansa Cargo is thereby making the switch from early adopter to minority investor. Berlin-based cargo.one was founded in 2017. The startup has developed a platform for booking and marketing air cargo capacity. Through its focus on offering dynamic spot rates and enabling their booking, cargo.one is the first platform of its kind. Lufthansa Cargo already invested in a technology startup – Fleet Logistics – based in Portland, USA, back in early 2018. Founded in 2014, Fleet Logistics acts as an online marketplace, matching customer demand for cargo services with free capacity provided by logistics companies. Lufthansa Cargo has also been cooperating since February 2018 in the role of anchor partner with technology accelerator Plug and Play based in Sunnyvale, USA. This, the world’s largest technology accelerator, brings technology startups and established companies together. They combine their efforts within the supply chain and logistics platform, which is focused on supply chain startups, to further develop and quickly implement

FINANCIAL NEWS

new digital solutions. The program provides an opportunity for logistics players to network with and learn from each other, exchange ideas and drive digitization.

MILITARY AND DEFENCE

Boeing KC-46 Tanker program completes Phase II receiver certification testing

Boeing’s KC-46 tanker program has completed its planned Phase II receiver certification flight testing following three weeks of flights with F-15E aircraft out of Edwards Air Force Base, Calif. Boeing and U.S. Air Force KC-46 crews kicked off receiver certification testing with F-16 aircraft in April 2018. Since then the joint team also completed testing with KC-135, C-17, A-10, KC-46, B-52, and F/A-18 aircraft. During the certification flight tests, KC-46 and receiver aircraft flew at different airspeeds, altitudes and configurations to ensure compatibility and performance throughout the refueling envelope of each receiver. Now, the Air Force and the Aerial Refueling Certification Agency will review all test data and paperwork before ultimately “certifying” each aircraft. Six test aircraft have now completed more than 3,700 flight hours and supplied more than four million pounds of fuel in flight to receiver aircraft. Phase III receiver certification testing will be conducted by the Air Force at Edwards Air Force Base in 2019. That testing will include additional receiver aircraft. The KC-46, derived from Boeing’s commercial 767 airframe, is built in the company’s Everett, Wash., facility. Boeing is currently on contract for the first 52 of an expected 179 tankers for the U.S. Air Force. The KC-46A is a multirole tanker that can refuel all allied and coalition

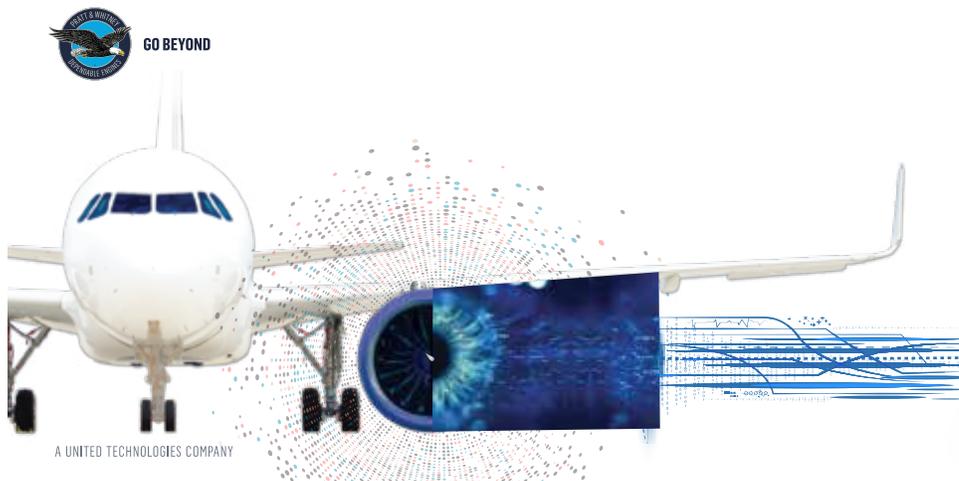
Enter Air and Magnetic MRO sign PBH support contract for nineteen Boeing 737NGs



Enter Air in Tallinn

Photo: Magnetic MRO/Anna Zvereva

Magnetic MRO, a provider of Total Technical Care, and Poland’s Enter Air have signed a three-year contract for PBH support for the airline’s 19 Boeing 737-800s. The recently signed agreement includes both scheduled and 24/7 ad-hoc supply of components, component repair management, loan, exchange and warranty support services for the carrier’s Boeing 737 NG fleet at Warsaw Chopin, Katowice-Pyrzowice and at its other main airports. “As a charter airline, Enter Air is nothing but a demanding customer to any PBH provider. What has brought Magnetic MRO into the arena is the fusion of our growing asset management expertise combined with extensive component maintenance capabilities by our new shareholder Guangzhou Hangxin Aviation Technology (Hangxin),” shares Inga Douglas, Commercial Director, Magnetic MRO. “Being one of the largest charter airlines in the region, we need efficient component supply in order to ensure the fleet’s smooth performance. However, launching and maintaining an extended stock of non-critical components requires substantial investments and an additional team to run it. Luckily, together with Magnetic MRO and their PBH program, we will be able to keep our component supply, repair and overhaul costs optimized while maintaining high fleet performance and timely AOG support,” says Mariusz Olechno, Chief Technical Officer, Enter Air.



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MILITARY AND DEFENCE

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IAI's ELTA awarded initial contracts worth over US\$60 million by Asian customer

ELTA Systems, a subsidiary of Israel Aerospace Industries (IAI), was awarded initial contracts to supply advanced multi-mode radars and an Electronic Warfare (EW) protection system, both based on latest Active Electronically Scanned Array (AESA) technology. The combined contracts are worth over US\$60 million. The products to be delivered are based on the latest technologies providing the customer's Air Force fighter jets with high-performing radar sensing and maximum protection against potential ground and airborne threats.

USAF awards US\$27.5 million task order to AAR

AAR Mobility Systems has been awarded a task order valued at US\$27.5 million from the U.S. Air Force for production of 463L cargo pallets. The cargo pallets will be manufactured in Cadillac, Michigan and are expected to be completed by December 30, 2020. This task order is tied to a previously awarded contract, which brings the total cumulative face value to US\$170.6 million. AAR has been providing 463L systems cargo pallets to the U.S. Armed Forces since the early 1960s and continues to be the world leader in design and production. The 463L USAF design uses a lightweight balsa wood core that continues to provide unparalleled strength-to-weight performance and reliability compared to alternative commercial pallet designs.

Lockheed Martin and Airbus sign aerial refueling Memorandum of Agreement



Michele Evans, EVP Lockheed Martin Aeronautics and Fernando Alonso, EVP Military Aircraft, Airbus Defence and Space in the cockpit of an A330MRTT
Photo: Airbus

Lockheed Martin and Airbus have signed an agreement to jointly explore opportunities to meet the growing demand for aerial refueling for US defense customers. The companies will seek to provide aerial-refueling services to address any identified capacity shortfall and to meet requirements for the next generation of tankers capable of operating in the challenging environments of the future battlespace. "Reliable and modernized aerial refueling is an essential capability for our customers to maintain their global reach and strategic advantage," said Lockheed Martin Chairman, President and CEO Marillyn Hewson. "By combining the innovation and expertise of Airbus and Lockheed Martin, we will be well positioned to provide the United States Air Force and allies around the world with the advanced refueling solutions needed to meet 21st century security challenges." The companies are taking a cooperative approach, with the Airbus A330 Multi Role Tanker Transport (A330 MRTT) at its heart, to examine a broad spectrum of opportunities. These may range from ways to support critical near-term air-refueling needs, such as a fee-for-service structure to conceptualizing the tanker of the future. Airbus Defence and Space Head of Military Aircraft Fernando Alonso said: "The A330 MRTT has been selected by a dozen nations around the world. It is extensively proven in live operations and has been repeatedly praised by major air forces. We are convinced that the combination of Airbus' tanker expertise with Lockheed Martin's extensive US presence, has the potential to provide highly effective solutions for current and future US military aerial-refueling requirements." Lockheed Martin has a long and successful history of systems integration, manufacturing and MRO operations with large airlift and tanker aircraft. When combined with Airbus' expertise, the two companies will field a strong team to address future air refueling needs.

OTHER NEWS



Hawaiian Airlines will open a technology center in the Phoenix area in the first quarter of 2019. When fully operational, the center will allow the airline to act nimbly in the rapidly changing IT space and provide Hawaiian Airlines with additional layers of security and redundancy for its information systems and personnel. Hawaiian's primary IT functions and decision-making will

continue to take place in Honolulu and the airline will continue to collaborate with local educational institutions for IT internships and recruitment. "This facility will provide us with important advantages as the airline continues to grow," said John Jacobi, senior vice president of IT at Hawaiian Airlines. "As Hawaiian Airlines grows, so too will our IT functions here in Hawaii." Hawaiian Airlines expects to have a temporary Phoenix office operating in the first quarter of 2019 before moving into a permanent space. When it is fully staffed, it will have more than 100 employees.

Universal Avionics (UA) has received **FAA Technical Standard Order** (TSO) authorization for the company's new touchscreen EFIS Control Display Unit (ECDU) for the InSight Display System. Designed for efficiency, the Touch ECDU provides

fast, easy access of InSight user control and input. The STC is expected in the first quarter of 2019. This latest offering further improves the InSight Display System, offering the ultimate in operator choice; the ECDU is now available in touchscreen or non-touchscreen versions. Both ECDU models combine multiple InSight System controls, including the flight displays, FMS, radios, traffic, and terrain into a centralized control device. The ECDU eliminates the need for external panels that take up valuable cockpit space by integrating with the PFD/MFD and standalone radios. The Touch ECDU combines the functionality of the traditional ECDU with an even more intuitive interface for an enhanced, easy user experience. Operators can now use the Touch ECDU, the Cursor Control Panel (CCP), or both for unique and intuitive 'Point and Click' system control.

OTHER NEWS

Honeywell has released that it will relocate its global corporate headquarters to Charlotte, North Carolina, a business- and family-friendly city close to several of Honeywell's businesses in the Southeast United States. Honeywell also announced it will relocate the headquarters of its Safety and Productivity Solutions (SPS) business group from Fort Mill, South Carolina, to Charlotte. The final decision is subject to the recently passed North Carolina Job Development Investment Grant (JDIG) legislation becoming law and the final award of state and local incentives, which the company expects to be completed early next week. As part of the move, about 150 to 200 New Jersey-based senior management positions and about 100 South Carolina-based positions will relocate to Charlotte between now and September 2019. The company envisions gradually adding about 500 Honeywell corporate and SPS positions to the Charlotte location over the next five years, bringing total employment numbers there to about 750 by the end of 2024. Any corporate roles that will be added in Charlotte will come from multiple locations, not just New Jersey.

WestJet has expanded its codeshare relationship with **Qantas** by placing its WS code and flight numbers on Qantas-operated flights between Los Angeles and Sydney, Melbourne and Brisbane. Flights will start December 6, 2018. WestJet and Qantas have been codeshare partners since 2014 and the airlines have offered Qantas Frequent Flyer and WestJet Rewards members the ability to earn and redeem loyalty rewards since 2017. Travelers will also continue to enjoy one-stop check-in and baggage transfers to their final destination. WestJet operates flights from Vancouver, Calgary, Edmonton and Toronto to Los Angeles. The WS code will be added on Qantas' daily flights between Los Angeles and Sydney, Melbourne and Brisbane and its seasonal service between Vancouver and Sydney.

TAG Farnborough Airport is a growing business aviation airport serving customers from around the world, including the Middle East which continues to be an important market. The airport has seen significant growth throughout 2018. For the 11-month period January-November 2018, air traffic movements were up by over 15% compared with the same period last year. TAG Farnborough Airport currently handles approximately 30,000 flights per annum with approval to increase this number to 50,000 and is equipped to cater for a wide range of aircraft types including Boeing Business Jets and Airbus Corporate Jets. As the only dedicated business aviation airport in the UK, it is specifically designed to offer a one-stop shop for business aviation operators and with 240,000 ft² of climate-controlled hangar



Ryanair signs new training partnership with ATO SKY4u

Photo: Ryanair

Ryanair has announced a major new training partnership with **ATO SKY4u** to deliver a Ryanair Airline Pilot Standard (APS MCC) program in Berlin and Vienna. The partnership will ensure Ryanair continues to attract highly trained professional pilots to support its continued growth across Europe. This new EASA-approved enhanced MCC program gives trainee pilots a structured path to achieve an exceptional training course and reach a standard where they are ready to join the Ryanair Boeing 737 Type Rating program. Pilots on the program will be trained by SKY4u instructors using Ryanair procedures as they take their first steps towards becoming Ryanair pilots. Over the course of the next four and a half years, up to 450 new pilots from across Europe will be recruited and trained by SKY4u, underlining its respected position in the pilot training market.



Oriens Aviation to start offering EASA Pilatus PC-12 SET class rating pilot training

Photo: Oriens Aviation

Oriens Aviation, the exclusive UK **Pilatus** Service Centre and sales distributor of the PC-12, is widening its expertise at its London Biggin Hill facilities to start offering EASA Pilatus PC-12 SET class rating pilot training from January 2019. In a newly-ratified partnership with Jonathan Shooter's **Oysterair**, who are a specialist Approved Training Organisation in high performance aeroplane training, trainees will cover EASA and FAA certified class rating courses – ground and flight instruction – at Oriens' HQ. The EASA PC-12 class rating course caters for a wide range of experience, from the PPL (A) holder with instrument rating and a minimum 200 flying hours' experience with 70 hours Pilot in Command, to the most experienced pilots. The move into flight training comes one year after Oriens launched Oriens Maintenance, acquiring the Avalon Aero facility at London Biggin Hill. The business is steadily growing and the business will be handling 20 PC-12s from next year, in addition to other business turboprops and Cessna Citation types.

PASSENGER STATISTICS - NOVEMBER

- **Delta Air Lines** carried 15.5 million customers across its broad global network this month, a record for any November. Total traffic increased 4.2% when compared to November 2017, while total capacity increased 3.8%. Total load factor for the month was 85.8%, up 0.4 points compared to the previous year.
- **Ryanair** has released November traffic statistics as follows: Combined traffic in November grew 11% to 10.4 million passengers with a 96% load factor. Ryanair traffic grew 8% to 10.1 million customers with a 96% load factor. Laudamotion traffic was 0.3 million customers with a 93% load factor.
- In November, **Finnair** carried 980,100 passengers, 3.2% more than in the corresponding period of 2017. The overall capacity increased in November by 7.2%. Finnair's traffic grew by 2.1%. The passenger load factor decreased year-on-year by 3.8% points to 74.6%.
- **International Airlines Group (IAG)** has reported that traffic in November increased by 7.0% versus November 2017, while Group capacity rose by 6.9%. Group passenger load factor was 80.7%, the same as reported in November 2017.

OTHER NEWS

facilities and 1.2m ft² of ramp space can accommodate both based and transient aircraft. TAG Farnborough Airport in the U.K. has been chosen as the location for Gulfstream Aerospace Corporation's London Area Service Centre with a state of the art, purpose-built facility expected to be operational by the third quarter of 2020. The new maintenance, repair and overhaul (MRO) facility will include office space, customer areas, shop space and a hangar able to accommodate up to 13 large-cabin aircraft. Significant ramp space will also be included, along with a car parking area. The entire facility is projected to cover approximately 180,000 to 220,000 ft²/16,723 to 20,439 m². "We are delighted that Gulfstream has selected TAG Farnborough Airport as the location for its new MRO. We welcome this investment which will benefit the regional economy and underpin the airport's role in supporting jobs and economic development. As Europe's leading business aviation airport and a London gateway, we are well placed to meet the specific requirements of Gulfstream and its customers," said Brandon O'Reilly, CEO TAG Farnborough Airport.

As TAG Farnborough Airport continues to see an increase in movements of the Airbus Corporate Jet series (ACJ), TAG Aviation's Farnborough Maintenance Services Centre (TFMS) is now offering Line Maintenance support services for its Airbus A320 Corporate Jet series' customers using the airport. TFMS will be able to provide customers with onsite support, ranging from daily and weekly maintenance checks, to undertaking ad hoc troubleshooting.

Kalmar Öland Airport and **Kalmar Municipality**, together with **SAS** and **BRA airlines** and fuel supplier **Air BP** have cooperated to meet a 5% biofuel target on all flights from Kalmar to Stockholm. Kalmar Öland Airport has, together with its owner Kalmar Municipality, been working actively for many years to create the conditions to secure funding for the additional cost of aviation biofuel, with a long-term goal of having fossil-free aviation from Kalmar. As a first step towards fossil-free fuel locally, domestic flights between Kalmar



Biometric boarding offers customers additional convenience and security during boarding Photo: American

Better boarding for **American Airlines'** customers arrived at Los Angeles International Airport (LAX) on December 5, with the launch of the carrier's first-ever biometric boarding pilot program. American customers traveling on select international departures from LAX Terminal 4 can now enjoy additional convenience during the departure process thanks to cutting-edge technology. Instead of scanning boarding passes, the new one-step facial recognition program will scan and verify a customer's identity with U.S. Customs and Border Protection (CBP) in seconds at the gate. "LAX is American's gateway to the Asia-Pacific region, making it the perfect location for American to launch biometric boarding," said Suzanne Boda, Senior Vice President of Los Angeles at American. "The goal of the new technology is to provide a more efficient, modern experience for our customers and team members while enhancing aviation security. That is exactly what we've been working to do here in Los Angeles." When customers begin the boarding process, the facial recognition program will scan an image of their face and send it to an existing cloud-based CBP database. The system then instantly matches the image against the passport photo already on file with CBP and within seconds sends back a yes or no determination at the gate on whether they are cleared to board. Agents will continue to ensure customers have their passports with them before departing. Customers may also choose not to use the new system and board with their regular boarding pass. The pilot program will be used at LAX for 90 days as American evaluates its potential expansion to more flights and locations throughout its global network.

and Stockholm flew on biofuel during the Kalmar-sundsveckan 2017 sustainability week. The next step in the process was to establish the conditions for funding the aviation biofuel more broadly. During this process, both Kalmar Municipality and the airport, and many of the municipal companies, took the decision that all their own business travel on flights from Kalmar should be powered by biofuel. Equivalent to three years' supply, the procurement of aviation biofuel for Kalmar Municipality took place this autumn. As part of the project, SAS and BRA airlines are coming on board

too and joining forces with Kalmar Municipality and Kalmar Öland Airport, which represents a unique investment in aviation biofuel for the industry and the region. The approximate 80 tons of biofuel required for flight services from Kalmar to Stockholm in 2019 will be supplied by Air BP to Kalmar Öland Airport for SAS and BRA to refuel their aircraft. Together, the airlines will finance 50% of the additional cost of the biofuel, whilst Kalmar Öland Airport, as the representative for the region, will secure financing for the remaining 50%.

OTHER NEWS

According to the French newspaper **Le Figaro**, it would seem that labor conditions are part of the reason why new **Air France-KLM** CEO Benjamin Smith is looking to close down the experimental airline brand **Joon**. The decision will be put to the board of directors, but it looks like a ‘done deal’ as reintegration of Joon cabin crew with **Air France** staff is already being discussed.

Joon’s cabin crew were earning approximately 15% less than their Air France counterparts, despite having to work more hours, and the new carrier was on track to continue recruitment up to 700 cabin staff from its current level of 550. Both the SNPNC and UnsaPNC French trade unions had written to Smith airing their grievances over employment conditions with Joon. Joon has been performing better than anticipated with a reported load factor of 90% despite its ‘difficult-to-pin-down’ brand. Joon is not a traditional low-cost carrier and aimed at targeting millennial customers by making itself a more family-friendly brand through the provision of greater room for families to fly more comfortably. Only on November 19 Joon announced a new seating concept with certain four-seat rows on the Airbus A340 capable of being transformed into a cozy bed for up to two children by attaching the headrests to the bottom cushions. With problems surrounding a number of low-cost carriers, including Monarch which ceased trading last year, plus more recently Flybe being put up for sale



Photo: AirTeamImages

and the future of Iceland’s WOW now looking very uncertain, Smith’s intention to consolidate the existing and established Air France-KLM brand and network could be seen as a prudent move and a better use of resources. It will be interesting to watch how IAG reacts to Air France’s move considering it has also recently begun operating under the LEVEL brand, one which shares many similarities with Joon.

INDUSTRY PEOPLE



Wolfgang Mayrhuber

- **Wolfgang Mayrhuber**, the former Chairman and CEO of Deutsche Lufthansa AG, passed away on December 1, 2018, at the age of 71. Mr. Mayrhuber had worked for Deutsche Lufthansa AG for over 40 years. As an engineer, he began his corporate career in 1970, in Hamburg, in the field of engine maintenance. After holding various management positions Mr. Mayrhuber was appointed Chairman of the Executive Board of the newly founded Lufthansa Technik AG in 1994, having played a key role in shaping the successful development of the company into a leading global service. In 2001 he was appointed to the Group Executive Board with responsibility for “Passenger Services”, and in 2002 he was appointed Deputy Chairman of the Executive Board. From 2003 to 2010 Mr. Mayrhuber was Chairman of the Executive Board of Deutsche Lufthansa AG. With the successful acquisitions of SWISS, Austrian Airlines and Brussels Airlines he had a lasting impact on the Airline Group. Mr. Mayrhuber was Chairman of the Supervisory Board from 2013 to 2017.

- WestJet has appointed **Arved von zur Muehlen** to the position of Chief Commercial Of-



Arved von zur Muehlen

ficer. Arved joins WestJet on January 2, 2019, subject to Canadian Immigration approval. Reporting to President and CEO, **Ed Sims**, Arved will lead WestJet’s commercial team with responsibility for all aspects of the commercial function including sales, marketing, product, network planning, revenue management, corporate development, airline partnerships and WestJet Vacations. Mr. von zur Muehlen brings more than 20 years of commercial aviation experience to WestJet and will be joining the airline from Malaysia Airlines, where he served as Chief Commercial Officer responsible for the sales, revenue management, network planning, marketing and branding, product development, digital and customer experience.



Stuart Locke

Maintenance London Biggin Hill Airport facility

- Oriens Aviation, the exclusive British Isles Pilatus Centre and sales distributor of the PC-12, will bolster its MRO team. TAG Aviation Farnborough Head of Maintenance **Stuart Locke** is taking up the post of General Manager of the Oriens Maintenance London Biggin Hill Airport facility

in January. Joining TAG Aviation in April 2013 to manage the business’ Part 145 maintenance activity, Locke was instrumental in doubling its business – from 50,000 to 100,000 manhours today with an 80-strong workforce.

- Eirtech Aviation Services (EAS) has formally announced some significant changes in its Part 21J DOA Engineering Leadership team. **Keith McKerchar** (Director of Engineering) is joined by **Trevor Jenkins** (ex CDG Boeing) as Head of Design and **Tom Malynn** (ex B/E Aerospace) as Head of Airworthiness. Bringing over thirty years of aircraft structures, cabin interiors and advanced materials engineering experience, Trevor Jenkins is a member of the Institute of Engineering and Technology and a Chartered Engineer. In addition to several Head of Design and Office of Airworthiness roles in Part 21 Subpart J approved organizations, he previously held roles as Technical Director with B/E Aerospace, Engineering Director with Premi-Air and more recently Integration Engineering Manager for CDG Boeing. Tom Malynn joins Eirtech with over 30 year’s aerospace experience. Previous roles have included research and development on navigation systems before entering the Cabin Interiors Sector where he worked on a variety of products/projects including aircraft STC programs. In the last 18 years, Malynn has been in senior technical positions encompassing stress, cabin systems and airworthiness. In addition, **John Mulvaney** has recently joined Eirtech Aviation Services hav-

INDUSTRY PEOPLE



Tom Malynn, Trevor Jenkins and Keith McKerchar

ing spent over 19 years with SR Technics, he brings a wealth of experience in both design and embodiment of aircraft changes to the Eirtech engineering team. Furthermore, the Singapore office has also expanded with the addition of **Valerie Lin** and **Pallaniyappan Soma Arunachalam** with more engineers joining in 2019. **Eamonn McAuley** is moving on from Eirtech Aviation Services to pursue other interests. The growing Eirtech engineering team now totals 27 design engineers including 7 CVE's and it expect to add to a CVE team in 2019, covering all engineering disciplines; cabin safety, structures and avionics. The team coverage now extends to Shannon, Dublin, Belfast and Singapore offices.



Marco Ciomperlik

- TUI Aviation has appointed **Marco Ciomperlik** to the position of Chief Operations Officer in charge of Engineering & Maintenance, Supplier Management & Procurement, Inflight Services and Aviation IT.

Ciomperlik is a known expert in the aviation industry with an impressive track-record of successful change management initiatives and corporate turn-arounds. Before joining the aviation industry, he worked at Germany-based consulting firm Roland Berger. His aviation career started back in 2010. TUI Aviation also announced further management appointments: **Jill Nye** has been newly appointed as Director Inflight Services. She will be in charge of inflight services, product selection and logistics in close coordination with the source markets; **Geert Somers** has been newly appointed as Director Engineering & Maintenance in charge of all maintenance work for the airlines and for Supplier Management & Procurement; **Isabelle Droll** will be the responsible Director for Aviation IT; **Dawn Wilson** will take over the Northern Region Airlines as Managing Director from 1st January 2019. She will directly report to

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Kenton Jarvis. She has many years of experience at TUI in both aviation and operations and now heads the airlines in the UK and Scandinavia. **Oliver Lackmann** will become the sole Managing Director of TUI fly Germany, also reporting to Kenton. He was appointed Managing Director and Accountable Manager at TUI fly Germany in March 2018. **Gunther Hofmann** continues as Managing Director of TUI fly Belgium and TUI Netherlands airlines. The Managing Directors will also have lead responsibilities in the aviation platform functions which go across all TUI Group airlines. Dawn Wilson will be Director Airline Operations, in charge of Operations Control areas across the Group. Oliver Lackmann will assume the Group role of Director Flight Operations including Compliance & Safety Management. Gunther Hofmann will continue to be in charge of Ground Operations across the Group.

- The Board of Directors of Icelandair Group has appointed **Bogi Nils Bogason** as President & CEO of the company. He has been the Interim President & CEO of Icelandair Group since the end of August. Bogason has served as Chief Financial Officer of Icelandair Group since October 2008. Previously, he served as Chief Financial Officer of Askar Capital from 2007 to 2008 and Chief Financial Officer of Icelandic Group from 2004 to 2006. He was an auditor and a partner of KPMG Iceland from 1993 to 2004.



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	ORIX Aviation	V2522-A5	1604	2001	Q1/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A321-200	Castlelake	V2533-A5	3274	2007	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A321-231	Aircraft Recycling Intern.	V2533-A5	3241	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A321-231	Aircraft Recycling Intern.	V2533-A5	3251	2007	Q4/2019	Lease	Gabrielle Du	gabrielle.du@ariaero.com	+852 37537347
A330-200	Castlelake	CF6-80E1A4	473	2002	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	Castlelake	CF6-80E1A4	489	2003	Q4/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidnitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26/3	29660	2007	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidnitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidnitz	bristol@bristolassociates.com	+1 202-682-4000
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR 72-202	ACI Aviation Consulting	PW124B	455	1995	Now	Sale / Lease	Quentin Brasie	Qbrasie@aciaviation.com	+1 540-428-4388
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10029	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
DASH8-311	Regional One	PW123B	325	1992	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700142		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700152		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700155		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145768	2003	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
SF340B	C&L Aviation Group	CT7-9B	194	1990	Now	Sale / Lease	Fred Dibble	fred.d@cla.aero	+1 207-217-6128
SF340B+	C&L Aviation Group	CT7-9B	425	1997	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
Saab 340B+	C&L Aviation Group	CT7-9B	368	1994	Now	Sale	Donald Kamenz	donald.k@cla.aero	+1 207-217-6259
SF340A Cargo	C&L Aviation Group	CT7-5A	046	1986	Now	Sale	Fred Dibble	fred.d@cla.aero	+1 207-217-6128

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THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(multiple) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Oct 18 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B27/E	Now - Lease				
(1) CFM56-7B27	Now - Lease				
(1) CFM56-7B26	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3B1	Soon - Sale/Lease/Exch.		David Desaulniers	leasing@willislease.com	+1 415 516 4837



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(1) CFM56-5B3/P	Dec 18 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CFM56-7B26	Jan 19 - Sale / Lease				
CT7 Engines	Sale / Lease	Company	Contact	Email	Phone
CT7-9B	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
(2) JT8D-219	Now - Sale	LCH Trading	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
(1) JT8D-217C	Now - Sale				
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GENx	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A33	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) LEAP-1B28	Soon - Lease				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123	Now - Sale / Lease				
(1) PW124B	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(1) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) PW124B	Now - Sale/Lease/Exch.				
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(1) PW120A	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) PW120	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW123E	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(4) PW126	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) PW121	Now - Sale/Lease/Exch.		Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				
PW127	Sale	C&L Aviation Group	Martin Cooper	martin.c@cla.aero	+1 207-217-6106
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Kryns	rkryns@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commerical Engines (cont.)

(1) PW4056-3	Now - Sale/Lease	Jet Midwest	Kevin Lee	engines@jetmidwest.com	+1-310-652-0296
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-535	Now - Sale / Lease	Jet Midwest	Dave Williams	dave.williams@jetmidwest.com	+1-817-791-4930
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 892	Now - Sale / Lease	TrueAero, LLC.	Matt Parker	mparker@trueaero.com	+1 469-607-6110
(4) Trent 556	Now - Sale / Lease				
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2533-A5S2 Zero-TSN engine with RGI	Now - Lease	TrueAero, LLC.	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
Trent5562 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cowls	Now - Sale/Lease/Exch.				
(1) GTCP331-500B	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
(multiple) APS2300, (1) GTCP331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTCP36-300A, (1) GTCP131-9A					
GTCP131-9A, GTCP131-9B, GTCP331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcmorin@logix.aero	+33.6.4782.4262
GTCP331-500B, GTCP331-200/250,			Rich Lewsley	rlewsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500 / CFM56/ PW2000 & Bootstrap kits		National Aero Stands		support@stands.aero	+ 1 305-558-8973
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werner aero.com	+1 201-674-9999
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werner aero.com	+1 201-661-6804
767-300 Winglets, LH-RH P/N 767-0010-5, -6, -7 & -8, SV- Now Sale		Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368