

Weekly Aviation Headline News

WORLD NEWS

Qatar Airways to launch direct flights to Botswana

Doha-based Qatar Airways will launch a new service to Gaborone, Botswana, starting 27 October 2019. The capital and largest city of Botswana will be the airline's first destination in the African country. The three-times weekly flights will be operated by an Airbus A350-900. Gaborone is the capital and the largest city in Botswana, a landlocked country in Southern Africa, bounded by Namibia, Zambia, Zimbabwe and South Africa.

EAN inflight broadband turns on

The European Aviation Network (EAN), inflight broadband service in Europe, is now being offered by airlines. Currently under a 'soft launch' phase with initial airline customers, the award-winning connectivity solution can already be accessed on more than 100 routes from key destinations such as London, Madrid, Barcelona, Athens, Lisbon, Prague, Rome and Vienna. To date, almost two million passengers have travelled on flights with access to EAN.

Wizz Air links Varna with Liverpool

Low cost operator Wizz Air has started new flight from the Black Sea resort town of Varna to Liverpool in the UK. The flights will be operated thrice weekly. Paul Winfield, Director of Aviation Development for Liverpool John Lennon Airport commented, "We are delighted to see Wizz Air continue to grow their operations from Liverpool." This latest new service is the airline's 8th route from Liverpool complementing their existing seven routes.



The 737 should be back in the fourth quarter 2019.

Photo: Boeing

737 MAX troubles add up

As Boeing gets hit with \$4.9bn charge

Aircraft manufacturer Boeing is set to record an after-tax charge of \$4.9 billion in its second financial quarter with most of the money being used to compensate airlines that have ordered and parked their 737 MAX's.

While the entire estimated amount will be recognised as a charge in the second quarter, the company expects any potential concessions or other considerations to be provided over several years and take various forms of economic value.

Additionally, Boeing's estimated costs to produce the aircraft in the 737 accounting quantity increased

by \$1.7 billion in the second quarter, primarily due to higher costs associated with a longer than expected reduction in the production rate. The increased 737 programme costs will reduce the margin of the

service. For purposes of the second-quarter financial results, the company has assumed that regulatory approval of 737 MAX return to service in the U.S. and other jurisdictions begins early in the fourth quarter 2019.

"The MAX grounding presents significant headwinds..."

Dennis Muilenburg, Boeing President

737 programmes in the second quarter and in future quarters.

Boeing says it continues to work with civil aviation authorities to ensure the 737 MAX's safe return to service, and these authorities will determine the timing of return to

"We remain focused on safely returning the 737 MAX to service," said Boeing Chairman, President and CEO Dennis Muilenburg. "This is a defining moment for Boeing. Nothing is more important to us than the safety of the flight crews and passengers who fly on our airplanes. The MAX grounding presents significant headwinds and the financial impact

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recognised this quarter reflects the current challenges and helps to address future financial risks.”

Also, Boeing announced that it has dedicated \$50 million of a previously announced \$100 million fund to provide near-term financial assistance to families of the victims of the

Lion Air Flight 610 and Ethiopian Flight 302 accidents. Boeing also announced that it has retained Kenneth Feinberg and Camille Biros, renowned experts in establishing and overseeing victims’ compensation funds, to design and administer the fund.

“The tragic loss of life in both accidents con-

tinues to weigh heavily on all of us at Boeing, and we have the utmost sympathy for the loved ones of those on board,” said Dennis Muilenburg, Boeing chairman, president and CEO. “Through our partnership with Feinberg and Biros, we hope affected families receive needed assistance as quickly and efficiently as possible.”

AIRCRAFT & ENGINE NEWS

Air Canada to lease two Airbus A321-200s from Air Lease Corporation

Air Lease Corporation has announced the lease and delivery of two Airbus A321-200 aircraft to Air Canada. These two young A321 aircraft to Air Canada will support their fleet requirements and expanding network for many years to come,” said John L. Plueger, Chief Executive Officer and President of Air Lease Corporation.

Fly Leasing to sell 12 aircraft

Fly Leasing has contracted to sell a portfolio of 12 aircraft, comprised of Airbus A320s and Boeing 737s, with an average age of eight years. “These sales are at an aggregate gain-to-book value, build free cash, reduce leverage, manage lessee concentration and lower the average age of FLY’s fleet,” said Colm Barrington, CEO of FLY. “FLY has a committed pipeline of 21 new A320neo Family aircraft that begin delivering later this year and has the capacity to add over US\$2 billion of assets to its fleet.” FLY anticipates the sales will generate in excess of US\$125 million of cash after repaying debt related to the aircraft and satisfying other transaction expenses. The sales are expected to be completed in the third quarter of 2019. Following the sales, FLY’s fleet will comprise 86 aircraft with a weighted average age of approximately seven years and on lease to 39 airlines in 21 countries.

WJZ-CBS Baltimore receives new R66 Newscopter



WJZ-CBS Baltimore’s new R66 Newscopter

On July 1, television station WJZ of Baltimore, Maryland took delivery of a new Robinson R66 Newscopter. Owned and operated by CBS, WJZ services the 2.8 million residents in the Baltimore metropolitan area. SKY Helicopters, a longtime Robinson dealer in Garland, Texas, leased the helicopter to WJZ and will provide on-going aviation and technical support. According to Ken Pyatt, President of Sky Helicopters, WJZ has been operating a Robinson R44 Newscopter since early 2019. Impressed with the R44’s performance and reliability, the station elected to move up to the larger, more powerful R66 Newscopter.

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Air Lease Corporation places two new Airbus A320-200neo aircraft on lease with Vietnam Airlines

Air Lease Corporation (ALC) has signed long-term lease agreements with Vietnam Airlines for two new Airbus A320-200neo aircraft. The two new A320-200neos are scheduled to deliver to the airline in fall 2020 from ALC’s order book with Airbus. Vietnam Airlines currently has two A330-200s and six A321-200neos on lease from ALC, as well as six A321-200neos and eight Boeing 787-10 aircraft scheduled to deliver to the airline from ALC’s order book 2019-2021.



One of Vietnam Airlines’ A321-neo aircraft

Photo: AirTeamImages

Wizz Air expands Chisinau operations with addition of new A320



Wizz Air will add a new Airbus A320 to Chisinau

Photo: AirTeamImages

Wizz Air has allocated a third aircraft to Chisinau. The new Airbus A320 will join the fleet in December, enabling the increase of frequencies of the airline’s existing eight routes and the start of four new routes from Chisinau. WIZZ started operations from Chisinau International Airport in 2013 and established a base there in March 2017. After six years of successful operations, the airline announced further expansion at its Moldovan base by allocating a third Airbus A320 aircraft in December 2019. The new aircraft represents another US\$101 million investment into the Moldovan aviation market and will contribute to the direct creation of over thirty new jobs with Wizz Air.

Elix Aviation Capital delivers ATR 42-500 to Afrijet

Elix Aviation Capital has delivered one ATR 42-500, MSN 633, on lease to Afrijet Business Service, headquartered in Libreville, Gabon. This is the first turboprop delivery by Elix to Afrijet and with this new customer, Elix continues to expand its leasing services in the African market. In 14 years, Afrijet has become the main aviation group in Central Africa and with this ATR42-500, the company is welcoming a sixth ATR in its regional aircraft fleet which now comprises three ATR 72-500s and three ATR 42-500s.



ATR 42-600 in Afrijet livery

Photo: AirTeamImages

AIRCRAFT & ENGINE NEWS

BOC Aviation sells 17 aircraft to Silver Aircraft Lease Investment

BOC Aviation has signed an agreement to sell a portfolio of 17 aircraft to Silver Aircraft Lease Investment I and affiliates (SLVRR 2019-1). To finance a portion of the purchase of the aircraft portfolio, SLVRR 2019-1 has issued three tranches of notes, comprising US\$443 million of 3.97% Series A notes (A, Kroll / Fitch Ratings), US\$73 million of 4.95% Series B notes (BBB, Kroll / Fitch Ratings) and US\$32 million of 6.9% Series C notes (BB, Kroll / Fitch Ratings). The source of repayment for the notes will be limited to the aircraft portfolio, the leases and related collateral. The issuance of US\$123 million tradable Class E participating certificates financed the purchase of the balance of the aircraft portfolio. Oak Hill Advisors acted as the anchor equity investor, with the remainder of the certificates distributed to a number of institutional investors. The notes are backed by the 17 aircraft to be acquired from BOC Aviation. These commercial jet aircraft are currently on lease to 14 airlines in nine countries and regions, and comprise seven Airbus A320 Family aircraft, seven Boeing 737NG aircraft, one Boeing 787-8 aircraft and one Boeing 777-300ER. The portfolio has a weighted average age of six years and weighted average remaining lease term of 5.4 years, based on weighted average appraised values as of 31 March 2019.

Kellstrom Aerospace purchases CFM56-5B3/P engine

Kellstrom Aerospace has purchased a serviceable CFM56-5B3/P engine, bearing s/n 779656. This engine will be added to its engine lease pool, reinforcing its commitment to supporting its airline customers around the world. This engine is currently located in Europe.

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StandardAero and Sierra Nevada Corporation extend relationship

StandardAero has extended its long-running relationship with aerospace and defense company Sierra Nevada Corporation (SNC) with the signing of a five-year agreement covering maintenance, repair and overhaul (MRO) support for the Pratt & Whitney PT6A and PW100 turboprop engines. StandardAero will support SNC from its Designated Overhaul Facility (DOF) in Summerside, PE, Canada, and its other global locations. SNC is a world leader in command, control, com-

Atlantic Airways takes delivery of first A320neo



Atlantic Airways takes delivery of the first A320neo on lease from ALC Photo: Airbus

Atlantic Airways, the Faroe Islands flag carrier, has taken delivery of its first A320neo, MSN8918. Leased from Air Lease Corporation (ALC), this aircraft is powered by CFM International's LEAP-1A engines and is configured in an all economy-class cabin layout. With its new Airbus fleet member, Atlantic Airways will further develop its European network. The airline, an Airbus customer since 2008, already operates an all-Airbus fleet of three A320 Family aircraft (currently two A319neos and one A320neo). In addition, the airline recently placed a firm order for two further A320neos.

Aventure acquires Boeing 757-200 with Rolls-Royce engines



Former Nepal Airways' Boeing 757-200 Photo: Aventure

Aventure Aviation has acquired a complete Boeing 757-200, MSN 23850, for teardown with two Rolls-Royce RB211 engines. The dismantling of the former Nepal Airlines aircraft is underway in Kathmandu, while the engines are being relocated to Atlanta. "Our aim has always been to supply quality after-market parts with full trace and useful remaining life," said Aventure Aviation's VP of Operations, Talha Faruqi, who thoroughly inspected the aircraft. "The purchase of this aircraft furthers our capabilities to support our growing 757 and 767 customer base," he added. All harvested parts will be inspected on-site and shipped to Aventure's main facilities in Peachtree City, Georgia, USA.

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puters, communications and intelligence, surveillance and reconnaissance (C4ISR) solutions, with experience on over 200 different types of manned and unmanned platforms including the Beechcraft King Air and Cessna Caravan. SNC has also partnered with Embraer to offer the A-29 Super Tucano for U.S. Department of Defense and international requirements. In addition, SNC provides aircraft design, modification and support services for a range of platforms, including the Dornier 328, supported via its subsidiary 328 Support Services GmbH.

IAG Engine Center USA receives FAA PW4000 engine series certification

The Federal Aviation Administration has approved IAG Engine Center USA's Pratt & Whitney 4000 engine series certification. Strategically located near the Miami International Airport, IAG Engine Center USA will be providing engine MRO repair services ranging from hospital repairs to full overhauls for the PW4000 series of engines. The recent IAG Engine Center Europe CFM56-5B certification paired with the IAG Engine Center USA PW4000 certification demonstrates each company's continued growth in the breadth of IAG Aero Group's commercial aircraft engine services. IAG Engine Center USA is an IAG Aero Group company and a world-class engine service provider with industry-leading MRO capabilities to provide customized solutions across an array of aircraft engines. The company's flexible suite services PW4000-, CFM56-, CF6-, and JT9D-model engines supported by its Miami, Florida location and its sister company, IAG Engine Center Europe, in Rome, Italy.

Willis Lease signs ConstantAccess™ agreement with major European Airline

Willis Lease Finance has entered into an agreement to provide ConstantAccess™ Platinum to a major European operator for a fleet consisting of 40 engines. The agreement will provide guaranteed availability of spare engines for both planned, and unplanned removals. "We are finding a greater number of airlines, both legacy operators as well as low-cost carriers, are opting to contract with us to provide them with spare engine coverage on a 'just-in-time basis' rather than maintaining a portfolio of underutilized assets" – commented Austin C. Willis, SVP of Corporate Development of Willis Lease. Willis Lease Finance leases large and regional spare commercial aircraft engines, auxiliary power units and aircraft to airlines, aircraft engine manufacturers and maintenance, repair and overhaul providers in 120 countries

Qatar Airways orders 18 Gulfstream aircraft worth US\$1 billion



Photo: Gulfstream G650ER

Qatar Airways announced a significant order for 18 Gulfstream aircraft during a ceremony at the White House on July 9, 2019. The order worth over US\$1 billion is for 14 Gulfstream G650ER and four Gulfstream G500 and will add to Qatar Executive's growing fleet that currently includes six G650ER and four G500 aircraft. Qatar Executive has been a Gulfstream customer since October 2014, when the charter service was announced as the international launch customer for the all-new G500 as part of a large fleet agreement that included the G650ER. Since that time, Qatar Executive has progressively increased their Gulfstream orders. This latest one, for a mixed fleet of large-cabin aircraft valued at over \$1 billion, further builds on the airline's efforts to expand the Gulfstream cabin experience around the world. To date, Gulfstream has delivered six G650ER and four G500 aircraft to Qatar Executive, including the first two international deliveries of the G500 in December 2018.

S7 Technics finds new method to produce plastic components

S7 Technics, Russia's maintenance, repair and overhaul (MRO) services provider has begun to manufacture plastic products using vacuum thermoforming. The new method will allow the company to considerably expand the range of items it is able to produce for aircraft interiors. S7 Technics' specialists at Novosibirsk's Tolmachevo airport have been producing plastic components since 2015 using pressure casting techniques. Now, production of serial parts using the new vacuum thermoforming method has been established. The technology of vacuum thermoforming involves heating of a plastic sheet, which is stretched over a mold in a vacuum. After this, the molded part is allowed to cool down, then pushed out of the mold using excessive air pressure. The design of new plastic products' manufacturing came from the Design Bureau of S7 Technics' Novosibirsk base. All materials used in the process passed the necessary fire tests carried out the company's own laboratory, the activity of which is certified by the national accreditation body in the ILAC-MRA system (International Laboratory Accreditation Cooperation).

Columbia Manufacturing on track for record year in MRO business

Columbia Manufacturing, a privately held manufacturer and supplier of precision metal com-

ponents for domestic and international turbine engines, has announced that its Maintenance, Repair and Overhaul (MRO) business is on track to achieve record revenues for fiscal 2019. Year-over-year growth is expected to be at least 30%. Columbia Manufacturing's FAA- and EASA-certified repair operation offers a comprehensive range of in-house turbine engine and repair solutions to its customers both domestically and internationally. Based on deliveries during the first half of 2019, its current backlog and expected new business, the company expects that 2019 will be the highest-grossing revenue year for the MRO business since it was founded in 1980.

StandardAero and Robertson Fuel Systems deliver two AS350 Crash-resistant Fuel Tanks to Oklahoma City Police Department

StandardAero and Robertson Fuel Systems have delivered two of their AS350/EC130 crash-resistant fuel tanks (CRFT) to Hangar One Avionics, which will soon be installed on the Oklahoma City Police Department's (OKCPD) AS350 B3e (H125) helicopters. The OKCPD received budget approval in May 2018 to purchase crashworthy fuel systems for their two AS350 helicopters and conducted a thorough review of the available retrofit options to determine the best solution to meet their requirements. The StandardAero/Robertson AS350/EC130 CRFT is fully compliant to the latest FAA FAR Part 27.952 fuel system

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crash resistance requirements, including with underbelly equipment installed. In March 2017, the StandardAero/Robertson team successfully conducted a 50-foot drop test of the CRFT in an airframe structure, including cargo swing attachment, solidifying its ability to withstand significant impact without leakage.

Héroux-Devtek and Longueuil facility employees ratify new three-year collective agreement

Landing gear manufacturer Héroux-Devtek has released that the unionized employees at its Longueuil, Québec, facility have voted in favor of the early renewal of a three-year collective agreement, which now extends through April 30, 2023. The renewal concerns approximately 210 employees who are members of Unifor, Local Section 1956.

Lockheed Martin confirms 15% workforce expansion at Milwaukee plant

U.S. defense contractor Lockheed Martin Corp has confirmed that it anticipates expanding its 300-strong workforce by 15% at its Milwaukee, Wisconsin plant. The announcement was made at the time of President Donald Trump's visit to the facility, run by Lockheed Martin subsidiary Derco. Lockheed Martin CEO Marillyn Hewson also made it clear that as a result of President Trump's pro-growth policies on tax reform and regulatory reform, the company would hire an additional 18,000 staff this year. The relationship between Trump and Lockheed Martin would appear to be a strong one with Hewson announcing last Wednesday that at the request of the President, the decision to close the Sikorsky helicopter plant in Pennsylvania would be reversed. Both Wisconsin and Pennsylvania are seen as key to President Trump's election campaign for 2020.

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Airbus Helicopters acquires Aersud Elicotteri

Airbus Helicopters has strengthened its footprint in Italy with the acquisition of its distributor and 50-year partner Aersud Elicotteri. Headquartered in the North of Italy, near the city of Verona, Aersud has played a key role in the development of the country's helicopter market. It has successfully increased Airbus Helicopters' market share in Italy, particularly in mission seg-

FL Technics implementing next-generation mechanics training using VR



Photo: FL Technics is implementing VR modules for training

FL Technics, a global provider of integrated aircraft maintenance, repair and overhaul services, which is part of Avia Solutions Group, has begun implementing VR modules for the basic training of aviation mechanics. The company has presented its first VR module, which covers the opening of the reverse thrust engine of a Boeing 737NG, and is set to expand its list of modules in the coming months to cover the full scope of maintenance training. Zilvinas Lapinskas, CEO at FL Technics, explains what inspired this innovative approach to training: "Our main goal is to reduce the time it takes new mechanics to enroll in the company. Globally the industry struggles with the three-month-long enrollment process needed for aviation mechanics. So that's why we are pushing to shorten that process as much as we can, and we aim to try to get it down to three weeks. Once we've reached that target, we'll be looking into the possibilities of taking our training product to market." The VR module itself has been designed to be as intuitive as possible, with the trainee mechanic proceeding through the series of tasks necessary for the opening of the engine. This starts with the mechanic selecting the right tools, then opening the covers, opening the reverse, inserting the safety lock and so on. The trainee can also select whether or not they require any simulation guidance. All efforts have been made to make the simulator as accurate and realistic as possible, even down to the fact that it will record any financial loss that may have been incurred as a result of the trainee's performance. Ramunas Paskevicius, Head of IT and Innovations at FL Technics, who is heading up the company's VR initiative, is convinced of the value that such training will provide: "We are currently testing the modules in-house and this will give us a better idea of how they fit into the business. As the general demand for professional mechanics in the aviation industry is constantly growing, we are hoping to make the [training] process shorter and prepare mechanics as fast as possible with no loss in quality. I am sure that our VR modules will help us to achieve all our goals."

ments such as aerial work, business aviation and emergency medical services, thanks to the Airbus single-engine H125 and twin-engine H145 helicopters that are particularly suited to the country's mountainous conditions. "With over 250 helicopters in service and more than 90 operators in the country, Italy is an important market for Airbus Helicopters, and we are here to stay" said Bruno Even, Airbus Helicopters CEO. The company will now fully integrate Airbus Helicopters' global network of customer centers.

Farsound Aviation acquired by private equity company AGIC Capital

Farsound Aviation has been acquired by AGIC Capital, a leading European-Asian private equity company focused on industrial and medical technology investments in Europe. Farsound Aviation will now have new resources and capabilities to continue developing and growing its supply chain solutions capability, and with the support of AGIC, exploit further opportunities particularly in Asia. Farsound Aviation will continue to focus on developing existing and new customer and supplier relationships, and the added capital

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investment from a large private equity backer will only enhance that drive.

Aviation Inventory Resources acquires assets of AIM Aircraft Spares

Aviation Inventory Resources (AIR) has acquired the assets of AIM Aircraft Spares, the Peachtree City, Georgia-based distributor of AIM Altitude products. Concurrent with this acquisition AIM Altitude UK has appointed AIR exclusive distributor for the Americas for all AIM Altitude products. The AIM Aircraft Spares operation will be integrated into AIR’s worldwide headquarters in Alvarado, Texas, near the Dallas/Fort Worth International Airport (DFW). “We’re very pleased to be working with AIM Altitude,” said Morgan Whitehead, Vice President of Operations for AIR. “We look forward to taking over on the good job the AIM Aircraft Spares team has done through the years and will be working hard to support AIM Altitude’s customers within the Americas by increasing stock levels and offering our world-class customer support.”

United Airlines posts second-quarter net income of US\$1.1 billion

United Airlines (UAL) has delivered two straight quarters of solid pre-tax margin growth and the highest second-quarter pre-tax income in the airline’s history. United reported second-quarter net income of US\$1.1 billion, pre-tax earnings of US\$1.4 billion and a pre-tax margin of 11.9%, expanding pre-tax margin 4.0 points versus the second quarter of 2018. Total passenger revenue increased 6.1% versus the second quarter

LCI closes US\$135 million asset-backed Helicopter facility



Photo: LCI helicopter

Lease Corporation International (LCI), a leading helicopter lessor and the aviation division of the Libra Group, has successfully closed a new asset-backed helicopter facility in excess of US\$135 million with a syndicate of five banks led by CIT Group Inc. as agent. The new facility, which has been agreed with CIT, National Westminster Bank Plc, National Australia Bank Limited, Barclays Bank PLC and The Huntington National Bank, will be used to support the continuing development and expansion of LCI’s fleet. LCI has also agreed to similar financing facilities this year with CaixaBank and Close Brothers Aviation and Marine. This brings the total amount of helicopter debt financing that LCI has raised since January 2018 to more than US\$280 million.

of 2018. Consolidated second-quarter passenger revenue per available seat mile (PRASM) increased 2.5% year-over-year. Consolidated second-quarter unit cost per available seat mile (CASM) decreased 0.4% year-over-year. Consolidated second-quarter CASM, excluding special charges, third-party business expenses, fuel and profit sharing, increased 0.6% year-over-year.

Finnair Group releases half-year results

Finnair has released its half-year results from January 1 to June 30, 2019. Revenue increased by 7.8% to €1,466.0 million compared to €1,359.3 for the previous year. Unit revenue (RASK) decreased by 4.3% and unit revenue at constant currency decreased by 4.4%. Fuel costs increased by €53,0 million (+19.4%) of which the



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impact of fuel price (Fuel price including impact of currencies and hedging) was €19 million. Operating result was €30.3 million compared to €67.7 million in the first half of 2018. Net cash flow from operating activities was €325.0 million down from €341.1 the previous year and net cash flow from investing activities was €-217.2 million compared to €-91.1 in 2018. The number of passengers increased by 9.0% while capacity for the first half year grew by 12.7%. The load factor dropped 2.2 points to 80.5%. (€1.00 = US\$1.12 at time of publication.)

Ryanair’s growth plans for 2020 halved due to 737 MAX delays

Low-cost Irish carrier Ryanair has announced it is halving its growth plans for 2020 as a consequence of the grounding of the Boeing 737 MAX jet. As one of Boeings largest customers, Ryanair was anticipating having 58 of the single-aisle jets delivered and operational by summer next year. However, in a statement by company CEO Michael O’Leary, Ryanair anticipates that deliveries of the jet, grounded since March after a second fatal air crash, would be unlikely to recommence before December. As the carrier can only process five to six new aircraft per month and does not accept deliveries during the peak operating months of June through August, Ryanair is now making plans to have only 30 of the 58 737 MAX jets operational for the summer of 2020. “This number could rise or fall further, depending on when the B737 MAX actually returns to flight services,” O’Leary stated, adding that the carrier now anticipates flying 159 million passengers in the financial year March 2020 to March 2021, an increase of only five million additional passen-

easyJet Q2 2019 results in line with expectations



Photo: easyJet

easyJet has released its financial results for the first financial half to 31 March 2019. Passenger numbers increased by 4.9 million while capacity increased by 14.5% principally due to annualizing of new operations in Berlin. Load factor decreased by 1.0 percentage points to 90.1% mainly as a result of building loads in Berlin in the first quarter. Total revenue increased by 7.3% to £2,343 million (H1 2018: £2,183 million). Total revenue per seat decreased by 6.3% to £50.71 (H1 2018: £54.10), with a decrease of 7.4% at constant currency. Headline cost per seat increased by 3.9% to £56.66 (H1 2018: £54.53) as a result of fuel price increases, the impact of foreign exchange, underlying cost inflation, investing in resilience as well as the impact of drones at Gatwick in December, mitigated by easyJet’s cost programme and fleet up-gauging. Headline cost per seat excluding fuel at constant currency increased by 1.3%. Headline loss before tax was £275 million (H1 2018: loss of £18 million) reflecting the above revenue and cost drivers, easyJet’s normal seasonality as well as increased volume of capacity. Total loss before tax of £272 million for the six months ended 31 March 2019 (H1 2018 loss of £68 million). It has also been reported that Peter Bellew, COO of Ryanair, will be joining easyJet in an identical role. easyJet’s chief executive Johan Lundgren said: “Peter has an exceptional level of experience across commercial and operational roles in both low-cost and full-service airlines and is a great leader with a proven track record in delivering results. I believe we have secured the very best person for this role and I am delighted to welcome Peter.” (€1.00 = US\$1.25 at time of publication.)



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gers as opposed to the anticipated ten million. “While it is disappointing that we have delays and disappointing that the growth for next year will be slower than ... we had originally planned, we remain confident in the aircraft. We still think it is a great product,” O’Leary told investors in a conference call. “As soon as we can reasonably organize these deliveries with Boeing, we would intend to take all of the 135 firm aircraft we have ordered over the next five years,” he said. While shares in Ryanair rose 2% at one point after release of the news, shares in other European carriers rose even further on the basis that the cuts being made by Ryanair would solve a problem of overcapacity in a saturated European market.

MILITARY AND DEFENCE

Portugal signs firm order for Multi-Mission Airlift KC-390s

The Portuguese Government has signed a firm order for five multi-mission Embraer KC-390 airlifters, as part of the process to modernize Portuguese Air Force capacities to support national Armed Forces operations and increase readiness in missions of public interest. Deliveries are scheduled to start in 2023. The KC-390 can perform different types of military and civilian missions including humanitarian support, medical evacuation, search and rescue and firefighting, while fully meeting the requirements of the Portuguese Air Force, adding new superior cargo and troop transport, aerial delivery and aerial refueling capabilities.

OTHER NEWS

Lufthansa Consulting (LCG) and the **German Aerospace Center** (DLR) have agreed to work more closely together in the future and have formed a strategic partnership. The aim of the cooperation is to translate new technologies and promising innovations developed by DLR into marketable and practical solutions, products and services, and to make them available to LCG clients in joint projects. The collaboration with DLR Technology Marketing will focus primarily on the airline, airport and transport infrastructure sectors, but also in other areas in which technologies and services from these sectors can be applied. One potential area of collaboration, for example, is the development of a laser system for non-contact detection of explosives by DLR. The use of such a system at airports not only has very important security aspects but also

First Boeing P-8A Poseidon for United Kingdom takes flight



The first Boeing P-8A Poseidon aircraft for the United Kingdom lifts off from Renton, Wash Photo: Boeing

The first Boeing P-8A Poseidon (ZP801) for the United Kingdom Royal Air Force (RAF) took off from Renton, Wash. on July 12, marking the first flight of this inaugural UK P-8A. During the 90-minute flight key testing took place before the aircraft touched down and moved to the next phase of preparation before customer delivery, installation of military systems. The RAF P-8A Poseidon fleet will support maritime surveillance, anti-submarine warfare and anti-ship warfare for the U.K. and will increase protection of the U.K.’s nuclear deterrent and Queen Elizabeth-class aircraft carriers. The first of nine P-8As ordered by the U.K. now moves to the P-8 Installation and Checkout facility in Tukwila, Wash., where mission systems are installed, and further testing happens before final delivery to the customer later this year. When the aircraft is delivered it will first fly to U.S. Naval Air Station Jacksonville for additional preparation and training by U.K. personnel before flying home to the U.K. The RAF will take delivery of ZP801 later this year and it will move to the U.K. in early 2020.

affects the throughput speed of passengers during check-in processes, a current cause of bottlenecks at all airports.

Southwest Airlines has released that it continues to monitor information from **Boeing** and the **Federal Aviation Administration** (FAA) on the impending 737 MAX software enhancements and training requirements. The airline remains confident that, once certified by the FAA, the enhancements will support the safe operation of the MAX. Southwest previously revised its flight schedule by removing the MAX through Oct. 1, to offer reliability to its operation and stability for its customers but, with the timing of the MAX’s return-to-service still uncertain, the airline is again revising its plans to remove the MAX from its schedule through Nov. 2.

The **International Air Transport Association** (IATA) called on **European governments** and **air**

navigation service providers (ANSPs) to make urgent improvements to European air traffic management. The priority should be to cut carbon emissions and address the unnecessary costs and flight delays suffered by passengers from inefficient airspace routes and bottlenecks. According to Eurocontrol, in June more than 210,000 flights, 20% of the total, were delayed. The average delay time was 17 minutes. The vast majority of the delays were from a lack of air traffic control capacity, driven by inadequate staffing, inflexible rostering, and an inability to react to disruptive events. In the first six months of the year Karlsruhe Upper Area Control (UAC) in Germany, the Marseille UAC in France and the Vienna UAC in Austria contributed the most to delays. A short-term contingency plan was introduced last year to re-organize the region’s airspace in a move to mitigate inefficiencies in the network. The plan generated new problems as it redistributed 1,000 flights per day from the most problematic areas. The re-routing of aircraft in-

OTHER NEWS

creases travel time for passengers, and it forces airlines to circumnavigate saturated areas with longer, less-efficient routes that produce unnecessary CO2 emissions.

IATA calls on the European Commission, European Governments and ANSPs to:

- Reform outdated work practices so that staff can be deployed where they are required, and recruit additional staff as needed to fill any gaps
- Modernize ATM infrastructure and implement the new Airspace Architecture program
- Continue the deployment of the Single European Sky ATM Research (SESAR) which airlines have invested in
- Empower the European Network Manager to plan and configure the network to meet the demands of air travelers
- Penalize ANSPs which fail to deliver agreed capacity targets under the European Performance and Charging Scheme

“The busy summer travel season in Europe has begun and both travelers and airlines should be able to get to their destinations on time. The current situation is simply unacceptable. Airlines are making strides to reduce their environmental impact but in Europe they are being forced to produce unnecessary emissions every day. Fortunately, solutions exist. With the correct investment and planning, and a change in mindset by both governments and ANSPs, another summer of wasted emissions and delays can be avoided,” said Rafael Schwartzman, IATA’s Regional Vice President for Europe.

Leonardo, through its subsidiary **Vitrociset**, has been awarded a radio replacement contract by **ENAV**, the Italian air navigation services provider. The agreement is a five-year contract to replace ground-to-air communications equipment for airports and the supporting en-route infrastructure. Vitrociset has chosen the products of **Northrop Grumman Corporation’s U.K.-based** air traffic communications subsidiary, **Park Air Systems Limited**. The provision will update existing products to meet the 8.33 kHz channel spacing using the market leading Park Air T6 radio and other products from the Sapphire portfolio. The modernization will incorporate the requirement to move to Voice over Internet Protocol (VoIP). Equipment comprising T6 radios, antennas and remote control monitoring systems alongside customer acceptance testing and product training will all be provided by Park Air. Vitrociset and Park Air will be responsible for the in territory services and ongoing maintenance support. The contract was awarded thanks to the hard work and partnership of both Vitrociset and Park Air with feedback highlighting the technical expertise and provision for through-life support.



Newark Liberty International Airport (EWR)

In a major step forward in the development of a new world-class airport, the Port Authority has reached an agreement with **EWR Terminal One LLC**, a 100% subsidiary of **Munich Airport International GmbH (MAI)**, to operate and maintain the US\$2.7 billion Terminal One now under construction at **Newark Liberty International Airport (EWR)**. MAI will operate as **EWR Terminal One LLC** and oversee operations, maintenance and concession functions once the terminal is completed. Terminal One is replacing the outmoded Terminal A and is scheduled to be fully operational by 2022. The new operating company EWR Terminal One LLC also will be making short-term customer enhancements in Terminal A until that terminal is closed. Munich Airport, operated by MAI’s parent company **Flughafen München GmbH (FMG)**, has been awarded the title “Europe’s Best Airport” by Skytrax for the 12th time over the past 14 years. In addition to the Newark project, MAI is involved locally with a joint venture (Reach Airports) that will manage the new Terminal One project at **John F. Kennedy International Airport**.

INFORMATION TECHNOLOGY



ATR 72-500 Precision Air

Photo: AirTeamImages

Seabury Solutions, a subsidiary of New York-based **Seabury Capital Group LLC**, providing Information Technology solutions for the aviation industry, has added a new airline customer in Africa, **Precision Air**, for its solution to enhance the maintenance management of the carrier’s expanding fleet. The Tanzania-based airline, operating scheduled flights out of its main hub in Dar es Salaam, is the latest customer to join the ever-growing base of the company’s airline customers based on the African continent. Opting to deploy Seabury Solutions’ comprehensive maintenance solution, the carrier deemed Alkym as best suited to meet the requirements for managing the maintenance of its fleet. Precision Air opted for 17 out of 18 of the modules contained within Alkym, along with 20 concurrent users. The project is set to commence the second week of July, beginning with a two-week workshop to understand the entire requirements of the airline and map out the process.

INDUSTRY PEOPLE



Robbie Irons

- South Africa's Pegasus Universal Aerospace, pioneer of the Vertical Business Jet (VBJ®) Pegasus One, has named **Robbie Irons** as its Chief Executive Officer. In this new role, Irons will help lead product

development and lend strategic support to Founder and Chairman **Dr Reza Mia** as the business seeks to secure investment. He brings decades of solid international aviation experience to the Johannesburg, SA-based start-up, spanning senior roles previously with ExecuJet in Lanseria in both business development and aircraft sales. Irons took responsibility for the firm's aircraft sales activity in Africa in 2009.



Daniel Adamski

- Kellstrom Aerospace has appointed **Daniel Adamski** as Executive Vice President of Distributions. Having over 25 years of experience in the aviation industry with a focus on OEM Partnerships, Adamski joins Kellstrom Aerospace from PAS Technologies where he served as Vice President Business Development Americas.



Mike Da Silva

- Baines Simmons, part of the Consulting & Training division of global aviation services group Air Partner, has appointed **Mike Da Silva** as consultant. He will report directly to **Mike Wallace**, Head of Operations.

De Silva is a practitioner and manager in Initial Airworthiness, Certification, Test and Evaluation, and Safety Management Systems (SMS), covering both military and civil environments. Having successfully achieved design and flight test approvals and implemented an SMS, he has practical experience in understanding the requirements and expectations of regulators and can advise clients on the best course of action to achieve success in gaining approvals.

Recommended Events



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Engine Leasing Seminar

September 17, 2019 – Holiday Inn Kensington High Street, London

Effective Risk Management in Aircraft Leasing & Aviation Finance

September 18, 2019 – Holiday Inn Kensington High Street, London

Aircraft Economic Life Summit

November 18, 2019 – Gibson Hotel, Dublin, Ireland

Click here for more aviation events



Alexandros Kontotasios

- Clockwork Research, a fatigue risk management consultancy and part of Air Partner's Consulting & Training division, has named **Alexandros Kontotasios** as Human Factors Specialist. Kontotasios has a

solid academic background in researching and assessing fatigue in pilots, human factors in aviation, psychology, military psychology and accident investigation, enabling him to prepare high-quality fatigue research. He is currently finishing a PhD at the University of Leeds, exploring fatigue and performance in pilots who commute by driving, and also holds a BSc in Psychology, a BSc in Military Psychology and an MSc in Human Factors in Aviation. Prior to joining Clockwork, Kontotasios worked as a human factors' psychologist for the Hellenic Air Force, where he conducted psychological assessments of staff, including pilots, air traffic controllers and cabin crew, provided training on fatigue and stress management, researched fatigue and stress, and investigated accidents.



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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	DVB Bank	CFM56-5B6	3346	2007	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A320-200	ORIX Aviation	V2527-A5	3807	2007	Q1/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/3	5213	2012	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
A320-200	TrueAero Asset Management	V2527E-A5	5794		Nov 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5531		Oct 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5296		Aug 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5089		Jun 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	TrueAero Asset Management	V2527E-A5	5050		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A320-200	Castlelake	V2533-A5	1648	2001	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A320-232	DVB Bank	V2527-A5	2156	2005	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A321-200	Castlelake	V2533-A5	3274	2007	Q4/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A321-200	Castlelake	V2533-A5	1928	2003	Q1/2020	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	507	2002	Now	Sale / Lease	Kevin Ford	kford@gatelesis.com	+1-954-676-3111
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale / Lease	Mauro Francazi	mfrancazi@gatelesis.com	+1-954-676-3111
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24	33641	2007	Q2/2020	Lease	Matthew Gialopsos	Matthew.Gialopsos@orix.ie	+353 83 167 2233
B737-800	GA Telesis	CFM56-7B	33813	2004	Now	Sale / Lease	Priscilla Ang	pang@gatelesis.com	+1-954-676-3111
B737-800	GA Telesis	CFM56-7B	33814	2004	Now	Sale / Lease	Mauro Francazi	mfrancazi@gatelesis.com	+1-954-676-3111
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 Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	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
B777-300ER	DVB Bank	GE90-115b	35161	2008	Q3/2019	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
(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
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	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
Dash 8 Q400	DVB Bank	PW150A	4160	2007	Now	Sale	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
D0328 Jet	Regional One	PW306B	3185	2001	Jul 2019	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 Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581

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THE AIRCRAFT AND ENGINE MARKETPLACE

Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
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

Commercial 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 Boivar	mboivar@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
(1) CF34-10E5A1	Now - Lease	DASI	Ed Blyskal	ed.blyskal@dasi.com	+1 305-525-7308
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) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(2) CF34-10E7	Now - Sale/Lease/Exch.	Werner Aero	Cliff Topham	ctopham@wernerero.com	+1-703-402-7430
(multiple) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-8C5B1	Now - Lease				
(1) CFM34-8C5A1	Jul 2019 - Lease				
(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
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2A2	Dec 2019 - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
(1) CF6-80C2B6F	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Aug 2019 - Sale / Lease				
(1) CF6-80C2B1F	Jul 2019 - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5B	Q3/2019 - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) CFM56-5B4/3	Aug 2019 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-7B24	Aug 2019 - Lease				



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(1) CFM56-7B26	Now - fresh from OH	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 -214-988-6670
(1) CFM56-7B27	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B4/P	Jul 2019 - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernereraero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
(2) CFM56-7B26/27	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
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
(1) JT8D-219	Now - Sale / Lease	LCHAerospace	Carlos Miranda	cmiranda@lchaerospace.com	+1 954-644-9617
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(2) GENx1B74/75 Propulsor	Aug 2019 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1B28	Sep 2019 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) LEAP-1A33	Now - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
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) PW123B/E	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Jul 2019 - Sale / Lease				
(3) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW127F	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				
(1) PW124B	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcMorin@logix.aero	+33.6.4782.4262
(2) PW127E/F			Remi Krysz	rkrysz@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

Commercial Engines (cont.)

PW4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(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
(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-A5	Jul 2019 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) V2527-A5	Aug 2019 - Sale / Lease				
(2) V2500-A5	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werneraero.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.				
Trent 552 Inlet Cows & Fan Cows	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cows and Fan Cows	Now - Sale/Lease/Exch.				
CFM56-5B Inlet Cows and Fan Cows	Now - Sale/Lease/Exch.				
V2500-A5 Inlet Cows & Fan Cows	Now - Sale/Lease/Exch.				
CF6-80E Trust Reversers, Inlets & Fan Cows	Now - Sale/Lease/Exch.				
APUs (2) APS2300	Now - Sale/Lease/Exch.				
APUs (2) GTCP331-500B, (1) APS3200	Now - Sale/Lease/Exch.				
Neutral CFM56-7B QEC Kit	Q3/2019 - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.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
(1) GTCP131-9B	Now - Sale/Lease/Exchange	LongReach Aviation	Melanie Wood	info@longreach.com	+1-305-271-6650
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Q3+Q4/2019 - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(1) GTCP131-9B	Now - Sale / Lease	DASI	Chris Glascock	Chris.Glascock@dasi.com	+1 954-801-3592
(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	rlsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
(1) APU GTCP331-500, (1) APU GTCP131-9A	Now - Sale / 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		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Werneraero.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@werneraero.com	+1 201-661-6804
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368