

Weekly Aviation Headline News

WORLD NEWS

Atran Airlines to Lease GECAS 737-800 Freighters

Atran Airlines, scheduled express cargo carrier within Volga-Dnepr Group, and GE Capital Aviation Services (GECAS) have inked a lease agreement for two 737-800 freighters. The passenger-converted aircraft are scheduled to be phased in during the remainder of 2018 and in the first half of 2019. They will provide additional capacity to Atran's existing fleet of three Boeing 737-400 freighters and will increase Altran's fleet to five.

British Airways increases services to Nashville

British Airways is set to increase its flights to Nashville next summer, operating a daily flight between Tennessee and Heathrow. The addition of two extra weekly services means Nashville is British Airways fastest new route to move to a daily service in 10 years. The daily service will be operated by the Boeing 787-8 Dreamliner, the state of the art aircraft designed to enhance customer wellbeing. When launched, Nashville was the 26th US city British Airways flew to. Since then, the airline has announced it will start a direct flight from Heathrow to Pittsburgh in April 2019, operating four times a week.

Aer Lingus CEO steps down

IAG Group has announced that Aer Lingus chief executive Stephen Kavanagh will step down on January 1, 2019 but will remain on the airline's board as a non-executive director. He will be succeeded as chief executive and executive director by Sean Doyle who is currently British Airways director of network, fleet and alliances.



Loganair scooped this year's ERA Gold award.

Photo: Loganair

Loganair wins big at ERA

Airline triumphs at European awards

Just over one year since it began 'flying solo', Loganair has been named the Airline of the Year by the European Regional Airline Association (ERA). The Scottish carrier previously operated as a Flybe franchise partner.

Collecting the Gold Award at a ceremony in Edinburgh's International Conference on 10 October, the Scottish airline was recognised by the judges for its impressive achievements over the previous 12 months.

Loganair was honoured as an 'exceptional regional airline which has

rebuilt its commercial infrastructure after the end of its franchise' while implementing 'a complete re-brand' undertaken by a 'young and inspirational CEO.'

"The foundations that we've laid over the last year will serve Loganair well for decades to come."

Jonathan Hinkles, Managing Director

It was commended for its 'handling with success of the instant competition from its previous franchise partner' across six crucial routes in the Scottish islands, communities it serves 'in tough and challenging conditions'.

The judging panel comprised senior industry experts including past CEOs of European airlines, independent aviation journalists and industry academics from a variety of European countries.

The award was collected by the airline's managing director, Jonathan Hinkles, heading up

the 700 employees who contributed to Loganair's success.

Mr Hinkles said: "Receiving an award of this calibre is a tremendous privilege, highlighting every-

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thing Loganair has achieved since flying solo last year.

“Everyone in the team has worked incredibly hard to build a regional airline providing sustainable and reliable services for the communities to which we fly. The foundations that we’ve laid over the last year will serve Loga-

nair well for decades to come, and we’re very much looking forward to playing a leading role in the future of the UK’s regional air services.”

ERA’s Director General Montserrat Barriga commented: “Loganair serves its community in remote areas of Scotland in tough and challenging conditions. Despite this, in the past

year, the airline has successfully rebranded and begun operating in its own right as a truly independent regional airline. Loganair absolutely deserves this award – huge congratulations.”

AIRCRAFT & ENGINE NEWS

International aircraft leasing company Avolon issues update for third quarter 2018

Avolon owned and managed a fleet of 571 aircraft at the end of the third quarter, with total orders and commitments for 319 new-technology aircraft. The company executed a total of 39 lease transactions, comprising new aircraft leases, second leases and lease extensions. Avolon delivered a total of 14 aircraft to 8 customers, including 2 transitions and sold 16 aircraft, including the sale of 4 aircraft to Jade Aviation, Avolon’s joint venture with Cinda. The fleet utilization for the quarter was 100% and the average owned fleet age was 5.1 years with average lease term remaining of 6.8 years. At the end of the third quarter Avolon had a total customer base of 156 airlines in 64 countries.

Finnair wet leases one Airbus A330 from Air Italy for Chicago and Miami routes

Finnair will wet lease an Airbus A330 aircraft and crew from Air Italy for its Chicago and Miami routes for the period of October 12-31. One of Finnair’s long-haul aircraft was damaged at Chicago airport on September 25 when a high loader accidentally hit it. With the wet lease from Air Italy, Finnair is ensuring that flights to Chicago and Miami can be operated normally while the damaged aircraft is being repaired. “The aircraft damage in Chicago was very unfortunate. With

Delta Air Lines A220 takes to the skies



Delta’s first A220-100 takes to the skies

Photo: Airbus

Delta Air Lines’ first A220-100 took off on its first flight from Mirabel airport, Québec. The aircraft was crewed by A220 program test pilots. During a successful 2 hour and 53 minutes flight, the crew checked the aircraft’s main systems before landing back in Mirabel. The flight took place a few days after the aircraft rolled out of the paint shop. Next, the aircraft will continue with pre-delivery testing and assembly, as elements of its state-of-the-art interior come together at the A220 assembly line. Delta’s first A220 is scheduled to begin service in early 2019. Delta Air Lines will be the first U.S. airline to operate the A220 – at the same time becoming the fourth A220 operator, after Swiss International Air Lines, airBaltic, and Korean Air. Delta is the largest A220-100 customer, with a firm order for 75 aircraft.



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high-quality wet lease from Air Italy, we can continue operating our Chicago and Miami flights and offer our customers a smooth travel experience regardless of the aircraft change,” says Jakko Schildt, Chief Operating Officer, Finnair.

Elix Aviation Capital confirms lease transaction for six ATR 72-600s with Lion Air Group

Elix Aviation Capital (Elix) has concluded a transaction with Lion Air Group for six ATR 72-600 aircraft, including five recently delivered ATR 72-600 aircraft and a sixth ATR72-600 aircraft scheduled for delivery in November 2018. These ATR 72-600s are the first aircraft in Elix’s portfolio of ATR and Bombardier DHC8 turboprops to be operated in the growing Indonesian market. Through this transaction, Elix continues to develop and further invest into the capabilities and services it brings to operators worldwide.

MRO & PRODUCTION NEWS

SR Technics and FEAM Maintenance/Engineering sign MoU to expand line maintenance network

MRO service provider SR Technics and FEAM Maintenance/Engineering, a U.S.-based MRO leader in aircraft line maintenance services, have signed a memorandum of understanding (MoU) on joint initiatives aimed at adding value for the current and prospective customers of both companies. In partnering with FEAM, SR Technics will expand its reach from multiple European locations to the U.S. market, where FEAM has numerous established aircraft maintenance stations. Conversely, FEAM will offer global solutions through its partnership with SR Technics. “Partnering with a world-class MRO such as SR Technics will create new opportunities for FEAM

Airbus exhibits ACJ319 at NBAA show



The ACJ319 operated by K5 Aviation, to be displayed at NBAA 2018

Photo: Airbus

Airbus Corporate Jets (ACJ) is displaying an ACJ319 at the NBAA show, highlighting the full-size living space on offer. Operated by K5 Aviation and available for VVIP charter, this particular ACJ319 is making its airshow debut. Continuous improvements mean that the ACJ320 family now comprises the ACJ319neo, flying eight passengers 6,750 nm/12,500 km or for more than 15 hours, and the ACJ320neo, flying 25 passengers 6,000 nm/11,100 km or for more than 13 hours. Deliveries of the ACJ320neo will begin in the coming months and those of the ACJ319neo next year. Customers include Acropolis Aviation, Comlux and K5 Aviation. Both aircraft feature new-generation engines and Sharklets to save fuel, to enable even more intercontinental range, and to ensure that they keep their value well.

and more importantly, for FEAM customers,” said Dan Allawat, Chief Operating Officer, FEAM. “We look forward to exploring areas of cooperation as a means to offer a broad spectrum of services to our collective airline clients. As part of SR Technics’ growth objectives, this partnership will develop our service offering for our existing and future customers in the U.S.,” said Jakob Straub, Head of Aircraft Services and Line Maintenance at SR Technics. “Together with our strong partner, we will be able to seize on market opportunities to maximize our potential and expand our presence, while ensuring reliability and fast turnaround times at attractive prices.”

Groundbreaking ceremony for TurbineAero’s new building in Thailand: Robert Wilson named new CEO

TurbineAero announced the groundbreaking ceremony for a new building in the Free Zone of the AMATA CITY Industrial Estate, Chonburi, Thailand, outside of Bangkok. The 80,000 ft² new facility will house up to 250 employees and will handle high-technological testing, maintenance, repair and overhaul activities for aircraft components and systems for its worldwide customers, including APU MRO, LRUs and APU part repair. “We are delighted to start the construction of TurbineAero’s new APU MRO facilities in Asia. This new building highlights the growth Tur-

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- ▶ Lessor strategies for managing fleet age - the wave of new lessors explain their plans
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MRO & PRODUCTION NEWS

bineAero has witnessed over the last two years and confirms the development of the aerospace industry in Thailand which we are happy to be part of. This new facility will include three brand new full-digital auxiliary power unit test cells as well as the most modern Non-Destructive Testing, inspection, repair and overhaul equipment. The new state-of-the art equipment and work floor lay-out will enable us to further improve on turn-times, efficiency and performance,” said Peter Gille, Vice President and General Manager of TurbineAero Repair-Asia. “The construction of a facility of this kind is complex and expensive and it proves the trust that our Board of Directors has in the Kingdom of Thailand and in the country’s efforts on strengthening its position as innovation and service-based economy in South-East Asia.” Along with the new building, Robert Wilson was announced as the new Chief Executive Officer (CEO) for TurbineAero. Prior to this, Wilson founded Aerospace Advisory Group in 2014 and served leading aerospace companies in consulting and board roles. He served 27 years in leadership roles at Honeywell, and predecessor companies, supporting commercial airlines, military and business aviation customers. The last nine years of his 27-year Honeywell career he served as the President of the Business & General Aviation business. Headquartered in Chandler, Arizona USA, TurbineAero is one of the world’s leading independent aerospace component maintenance, repair and overhaul (MRO) service providers focused on auxiliary power units (APUs) and related products.

Lufthansa Technik offers 787 landing gear services

Lufthansa Technik AG is complementing its support portfolio for the Boeing 787 by adding overhaul capabilities and the availability of exchange shipsets for this aircraft type’s landing gears. This decision underlines Lufthansa Technik’s approach of offering an extremely comprehensive support portfolio for this modern commercial aircraft and continuously extending its services for it. Preparations are underway to

First 787-9 Dreamliner for Air Tahiti Nui



The first 787-9 Dreamliner for Air Tahiti Nui Photo: Boeing

and emissions by 20% to 25% compared to older airplanes. Air Tahiti Nui configured its new Dreamliner to seat 294 passengers in three classes. The cabin features a new business class equipped with 30 full lie-flat seats, along with 32 premium economy seats.

Boeing, Air Lease Corp. and Air Tahiti Nui celebrated the delivery of the airline’s first 787-9 Dreamliner, via lease from ALC. This is the first Boeing airplane to join the Tahitian airline, which plans to use the longest-range Dreamliner to replace aging A340s and connect its home base in the South Pacific with world capitals such as Paris, Tokyo and Los Angeles. Air Tahiti Nui joins other carriers in the Pacific who operate long-distance routes in switching to the super-efficient and long-range 787-9. The airplane can fly up to 7,635 nautical miles (14,140 km), while reducing fuel use

Scout takes delivery of its first A320neo

Scout, the low cost wing of Singapore Airlines, has taken delivery of its first A320neo in Toulouse, France. Scout has placed orders for 39 A320neo aircraft under its fleet renewal programme. The new addition complements the airline’s existing fleet of 27 A320ceo Family aircraft. Powered by Pratt and Whitney Pure Power engines, the new aircraft features 186 seats in Scout’s configuration. Selected for its outstanding operational efficiency, comfort and range, the A320neo will be deployed by Scout on its services across Asia. Featuring the widest single aisle cabin in the sky, the A320neo Family incorporates the very latest technologies including new generation engines and Sharklets, which together deliver at least 15% fuel savings at delivery and 20% by 2020. With more than 6,100 orders received from over 100 customers, the A320neo Family has captured nearly 60% share of the market.



LCC Scout takes delivery of first A320neo Photo: Airbus

initially build up the capability either in Hamburg or at Lufthansa Technik Landing Gear Services UK. Customers in the Americas will benefit from expanding this capability also to Lufthansa Technik’s Los Angeles-based subsidiary Hawker

Pacific Aerospace. To help with exchanging and repairing landing gears on site, Lufthansa Technik will rely on the mobile Airline Support Team (AST® Landing Gear) service. A new solution to transport the landing gears has also been devel-

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MRO & PRODUCTION NEWS

oped. Lufthansa Technik has designed dedicated transport crates, which will be available to save on transportation costs.

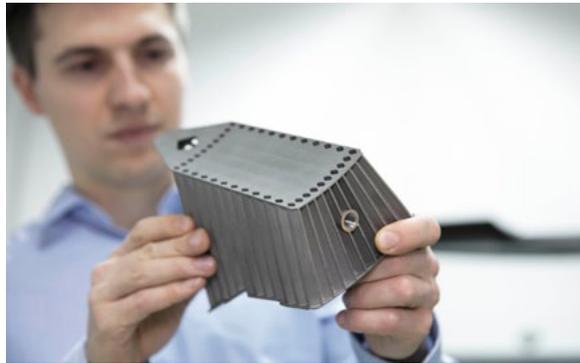
CTT Zonal Drying™ removed as basic equipment on Boeing 787

CTT SYSTEMS, a market leader of humidity control systems for aircraft, has announced that Boeing has de-selected the Zonal Drying™ equipment on the 787. This is as consequence of the Boeing decision to remove the Moisture Control system (MCS) as basic equipment on the 787. This decision will have a financial impact on CTT from the end of 2019. When coming into force, the deleted Zonal Drying™ OEM equipment will not only lead to lowered OEM sales, but will also have an impact on correlated IP deliveries and aftermarket sales. In 2017 and the first half of 2018, this in total accounted for 15-20% of CTT Systems' net revenues. The removal decision is consistent with other Boeing airplanes utilizing crown ventilation via upper recirculation air. CTT Systems will remain a supplier for the 787, supporting humidifiers to flight deck and crew rest compartments. "Although an unwanted change for CTT Systems, our target market for Zonal Drying™ is primarily single-aisle aircraft," comments Torbjörn Johansson, CEO at CTT Systems. "We are pleased to notice that our humidifiers in flight deck and crew rests are frequently selected on the Boeing 787 and highly appreciated amongst pilots and crew.

AAR to provide after-hours logistics and technical AOG support for Eaton Aerospace

AAR, a global provider of aviation services to commercial airlines, will deliver after-hours logistics and technical AOG support for Eaton Aerospace effective October 1, 2018. Under this agreement, AAR will serve as the single point of contact for all of Eaton's commercial customers after office hours. "We are excited to showcase our expanded AOG desk with one of our largest business partners," said Darren Spiegel, Vice President and General Manager, OEM Solutions, AAR. This arrangement will provide a seamless interface for Eaton's global customer base. If the requirement calls for products in AAR-Eaton's existing portfolio, AAR will provide support from its global warehouse network. For other Eaton products, AAR will work with Eaton to ensure the operator is fully supported.

Lufthansa Technik establishes Additive Manufacturing Center



New Additive Manufacturing Center

Photo: LHT

Lufthansa Technik has set up an Additive Manufacturing (AM) Center with the aim of bundling and expanding the competence and experience the company has gained using this technology in the past. Additive manufacturing is often referred to as 3-D printing. In addition to an unrivaled degree of freedom in designing the parts, additive manufacturing produces individual parts very quickly – a huge advantage

when prototypes or one-off parts must be manufactured. In the highly weight-conscious world of aircraft, the lower weight of parts makes using the AM technology very attractive. Dr. Aenne Koester, head of the AM Center, explains: "The new AM Center will serve as a collaborative hub where the experience and skills that Lufthansa Technik has gained in additive manufacturing can be bundled and further expanded. The aim is to increase the degree of maturity of the technologies and to develop products that are suitable for production." As the transfer of a new technology into the highly-regulated world of commercial aircraft operation and MRO poses a challenge, a joint team of Lufthansa Technik experts and AM specialists from numerous industry partners and research institutions are now developing strategies to support the introduction of this technology. As one example, a cooperation with Oerlikon AM aims at enhancing the understanding of process repeatability, a key element of industrialization and certification. The collaboration will also help drive the industrialization of additive manufacturing forward, as the study results will be shared with relevant industry bodies to support defining standards for the qualification and approval of aircraft components.

Lufthansa Technik performs first base maintenance layovers of Boeing 737 MAX

Lufthansa Technik has performed the first major connectivity modifications on Boeing 737 MAX 8 aircraft of an undisclosed customer. The aircraft were modified at Lufthansa Technik Budapest. The airline customer is currently enlarging its all-Boeing 737 fleet with the newest member of this aircraft family and was looking for a partner to equip the fleet with a state-of-the-art connectivity solution. Lufthansa Technik Budapest was the location of choice to accomplish the layovers within a short and reliable time frame. Over the



737 MAX

Photo: Brandon Farris

recent years, the narrow-body base maintenance and modification experts in Budapest have performed this modification many times on Boeing 737 NG aircraft. During the five-day layovers, several specialized teams were in place to accomplish the modification work. A structures team reinforces the affected skin area to facilitate the installation of the Satellite Antenna Assembly (SAA) and GSM antenna as well as the covering radome. The avionics team installs the cabling, hardware and software of the related connectivity system in the aircraft cabin. Other mechanics provide the necessary access to the cockpit and passenger compartment interior and reinstall all equipment once all work has been finished. Maintenance capability extensions for the 737 MAX at further locations in the Lufthansa Technik network are planned. Lufthansa Technik already offers an extensive range of globally available products and services for the various Boeing 737 types. The spare parts warehouses for the Boeing 737 of the Classic and popular Next Generation versions have been expanded for the 737 MAX to support operators of this aircraft type with component services. And, as one of the first MRO providers to support customers as early as in the initial phase of their LEAP engine operations, preparations for the introduction of the LEAP-1B engine are underway with the first shop visit expected in 2019.

FINANCIAL NEWS

CDB Aviation closes US\$700 million secured portfolio financing

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing (CDB Leasing), has successfully closed a secured portfolio financing facility for US\$700 million, covering a fleet of 19 Airbus and Boeing aircraft. “Diversifying financing sources at a competitive cost of capital is a key objective for CDB Aviation, and we appreciate the strong support from our banking partners in concluding this transaction,” said CDB Aviation Chief Financial Officer Will Gramolt. The seven-year facility is provided by a group of eight banks, consisting of: BNP Paribas, Crédit Agricole Corporate & Investment Bank, ING Bank, National Australia Bank, Natixis, Société Générale, Sumitomo Mitsui Trust Bank, and Westpac Banking Corporation, each acting as Mandated Lead Arranger. Crédit Agricole Corporate & Investment Bank is acting as Facility Agent. The Security Trustee is Bank of Utah. Allen & Overy acted as counsel for the Mandated Lead Arrangers. Clifford Chance represented CDB Aviation.

Héroux-Devtek completes acquisition of CESA

Héroux-Devtek a leading international manufacturer of aerospace products, has successfully completed the acquisition of Compañía Española de Sistemas Aeronáuticos, S.A. (CESA), a subsidiary of Airbus SE for a purchase price of €137 million (approximately CA\$206 million) enterprise value, including CESA’s net outstanding debt of €23 million euros (approximately CA\$35 million), subject to customary closing adjustments. The transaction was funded through a combination of a CA\$50 million seven-year unsecured subordinated term loan provided by Fonds de solidarité FTQ, the Corporation’s revolving credit facility and available cash on hand. In connection with this acquisition, the Corporation’s credit facility was amended, increasing the borrowing limit to CA\$250 million from CA\$200 million. Headquartered in Madrid, Spain, CESA is a leading European provider of fluid mechanical and electromechanical systems for the aero-

space industry. Its main product lines include actuation and hydraulic systems as well as landing gear products. Management is updating its sales guidance for fiscal 2019 to reflect the CESA acquisition. Management now expects sales for fiscal 2019 to be in the range of CA\$460 million to CA\$470 million, representing an increase of approximately 20% over last year. Capital expenditures are expected to be approximately CA\$20 million. Management is also issuing new long-term sales growth guidance reflecting both the Beaver acquisition completed last July and the CESA acquisition. Management expects fiscal 2022 sales in the range of CA\$620 million to CA\$650 million. (€1.00 = US\$1.15 = CA\$1.49 at time of publication.)

Zephyrus Aviation Capital announces closing of ZCAP 2018-1

Zephyrus Aviation Capital, a fleet management solutions provider focused on older and end-of-life aircraft and engine leasing & trading, has closed the Company’s first structured ABS financing, ZCAP 2018-1. Zephyrus Capital Aviation Partners 2018-1 Ltd and Zephyrus Capital Aviation Partners 2018-1 LLC (the Borrowers) will borrow US\$336.6 million, which will be used to finance the acquisition of a diversified portfolio of 21 in-production, predominantly narrow-body aircraft on lease to 19 lessees in 14 countries, from Dublin-based Avolon. ZCAP 2018-1 is comprised of a single Class A tranche of loans in the initial principal amount of US\$336.6 million with a fixed coupon of 4.605% yielding 5.153%. The loans have an initial loan-to-value ratio (calculated as the note amount divided by the lower of the mean and median of appraisers’ base values and current market values) of 74% and have been rated A / A by S&P Global Ratings and Kroll Bond Rating Agency, respectively. This financing event marks the ‘ground breaking’ combination of a newly launched company acquiring a substantial portfolio directly into an ABS structure. “We are pleased to see such strong demand for our initial ‘out-of-the-box’ ABS. With a book that was more than two times oversubscribed by knowledgeable and quality investors, our transaction structure – of a single-tranche loan format with significant equity fully-retained by Zephyrus –

was well-received by the market and signifies approval of Zephyrus’ long-term approach,” said Zephyrus CEO Damon J. D’Agostino.

ETC releases fiscal 2019 second-quarter results

Environmental Tectonics Corporation has released its financial results for the thirteen-week period ended August 24, 2018 (2019 second quarter). Net income attributable to ETC was US\$0.4 million in both the 2019 second quarter and the 2018 second quarter. Although most items contributing to net income attributable to ETC remained flat quarter over quarter, there was a US\$0.1 million increase in operating expenses that was offset by a US\$0.1 million decrease in other expenses, net. Net sales in the 2019 second quarter were US\$10.3 million, an increase of US\$0.2 million, or 1.6%, compared to 2018 second-quarter net sales of US\$10.1 million. The increase reflects higher international sales, especially within the company’s Aerospace segment, offset, in part, by a decrease in domestic sales, especially within its CIS segment. Gross profit for both the 2019 second quarter and the 2018 second quarter was US\$3.7 million. Gross profit margin as a percentage of net sales also remained relatively flat, quarter over quarter, at 36.4% for the 2019 second quarter compared to 36.5% for the 2018 second quarter.

BOC Aviation signs US\$750 million syndicated loan

BOC Aviation has signed a US\$750 million unsecured syndicated Loan Facility with a tenor of five years. Following a strong response from lenders after its launch into general syndication, the Facility was increased to a final size of US\$750 million from an initial launch amount of US\$500 million. The Facility is BOC Aviation’s largest single tranche unsecured term loan financing transaction. The borrower under the Facility is BOC Aviation (Ireland) Limited and the Facility is guaranteed by BOC Aviation. Agricultural Bank of China Limited, Singapore Branch, BNP Paribas, Citigroup



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FINANCIAL NEWS

Global Markets Singapore Pte. Ltd. DBS Bank Ltd., Development Bank of Japan Inc., The Hongkong and Shanghai Banking Corporation Limited, MUFG Bank, Ltd, Oversea-Chinese Banking Corporation Limited, United Overseas Bank Limited and Westpac Banking Corporation are the Original Mandated Lead Arrangers and Bookrunners (the OMLABs) for the Facility. Participating in the Facility are 19 financial institutions, including the OMLABs.

MILITARY AND DEFENCE

Embraer successfully performs first flight of series production KC-390 multi-mission airlift

Embraer achieved another important milestone with the completion of the maiden flight of the first series production multi-mission medium airlift KC-390. As agreed with the Brazilian Air Force, the aircraft will now join the flight test campaign, in which more than 1,900 flight hours have already been logged. Civil certification of the basic aircraft will be granted by Brazilian aviation authority ANAC (Agência Nacional de Aviação Civil) and is expected to be achieved very soon. Embraer’s KC-390 is a tactical transport aircraft designed to set new standards in its category while presenting the lowest life-cycle cost in the market. It can perform a variety of missions such as cargo and troop transport, troop and cargo air delivery, aerial refueling, search and rescue, and forest fire fighting.

OTHER NEWS

Japan Airlines (JAL) has filed an application with **Japan’s Ministry of Land, Infrastructure, Transport and Tourism (MLIT)** seeking immunity from antitrust laws to create a joint venture (JV) with **China Eastern Airlines**. If approved, the carriers` will jointly feature over 50 cities in Japan and over 80 on China’s domestic routes, providing countless advantages for consumers in both countries. Since the two airlines began offering codeshare flight operations in 2002, JAL and China Eastern have offered premium services on their respective network. The antitrust immunized JV will allow the two companies to further coordinate marketing, sales, and product development efforts to create more benefits for their mutual customers.

Driven by natural departures and significant growth in **Air France**, **Joon** and **Transavia** capac-



Air BP supplies BP Biojet

Photo: Air BP

Neste, a renewable products producer and **Air BP**, the international aviation fuel products and services supplier, have entered into an agreement to explore opportunities to increase the supply and availability of sustainable aviation fuel for airline customers. Through this innovative collaboration, Neste’s knowledge and manufacturing solutions for producing and blending renewable jet fuel will be brought together with Air BP’s customer relationships, expertise in developing efficient and effective supply chains, as well as their certification and product quality assurance capabilities. One goal of the cooperation will be complementary efforts to bring a co-branded sustainable aviation fuel to market at airports across Air BP’s global network. Sustainable aviation fuel is made by blending conventional, fossil-based kerosene with renewable hydrocarbons produced from, for example, recycled cooking oil. It is then certified as “Jet-A1” fuel and can be used in aircraft without requiring any technical modifications. Flying on sustainable aviation fuel reduces crude oil consumption and produces lower lifecycle carbon emissions compared to conventional jet fuel. The aviation industry has set ambitious targets to mitigate greenhouse gas emissions from air transportation, including carbon-neutral growth from 2020 and beyond, and a 50% reduction of net aviation carbon emissions by 2050. Currently, sustainable aviation fuel offers the only viable alternative to fossil liquid fuels for powering commercial aircraft. Collaborations between forward-thinking companies like Neste and Air BP will be needed to enable the aviation industry to continue to connect the world, but do so with reduced greenhouse gas emissions. Both companies have already demonstrated their leadership in this area. Neste’s MY Renewable Jet Fuel™ has proven its technical capability in thousands of commercial flights. It can be easily adopted by airlines without the need for additional investment in new jet engines or segregated fuel distribution systems. It is produced from renewable and sustainable raw materials, thus significantly reducing greenhouse gas emissions over the life-cycle. Air BP has supplied BP Biojet in the Nordics since 2014 at around 10 airports, including Oslo where they were the first to supply sustainable aviation fuel through the existing airport fueling infrastructure, in an earlier collaboration with Neste and other key Norwegian and industry stakeholders.

ity, Air France now needs to recruit 250 pilots per year. The company has therefore decided to reopen its cadet pilot programme eight years after it was suspended. The first trainee pilots started at **ENAC (French Civil Aviation School)** this summer with an eight-month theoretical training course at the Toulouse campus. The cadets will then continue for one year of practical flight training at the Montpellier, Carcassonne, Grenoble and St-Yan campuses before joining the Air France group as pilots on Airbus A320s or Boeing 737s. ENAC is a leading pilot training

school in Europe, recognized worldwide for its high standards of admissions and the excellence of its training. For 70 years, ENAC has been training pilots for airlines around the world, including four of the ten largest airlines in the world, including Air France.

WestJet is launching its first three Boeing 787-9 Dreamliner international destinations from Calgary. WestJet becomes the first Canadian airline to base its Dreamliner aircraft out of YYC Calgary

PASSENGER STATISTICS - SEPTEMBER

- **Norwegian** has reported strong passenger growth as it carried almost 3.5 million passengers in September. The total number of passengers increased by 9% compared to the same month in the previous year. The total traffic growth increased by 31% in September, driven by a 32% capacity growth. The load factor was 88.8% down 0.9 points compared to the previous year.
- **SAS** has released that the total number of passengers increased by 3.3% to 2.9 million in September 2018, while scheduled capacity and traffic increased by 2.4% and 4.8%, respectively. Scheduled passenger load factor increased by 1.8 percentage points to 78.0%.
- **Southwest Airlines** has reported that traffic in September 2018 increased 5.3% from September 2017, while Capacity increased 6.8% compared to the previous year. The September 2018 load factor was 80.5%, compared with 81.7% in September 2017.
- **WestJet** announced September 2018 traffic results with a load factor of 79.2%, a decrease of 1.2 points year over year. Traffic increased 9.7% year over year, while capacity grew 11.3% over the same period. WestJet welcomed an additional 137,000 guests in September, a year-over-year increase of 7.1%. Year-to-date traffic growth continues to outpace capacity additions.
- In September, **Finnair** carried 1,159,400 passengers, 7.8% more than in the corresponding period of 2017. The number of passengers grew in Asian traffic 5.5%, in European traffic 10.0% and in domestic 3.1%, while it decreased in North American traffic by 1.0%. Finnair's overall capacity increased in September by 13.2% year-on-year. Traffic grew by 7.2%, while the load factor decreased year-on-year by 4.6% points to 80.8%.

OTHER NEWS

International Airport. WestJet is launching non-stop service on board its Dreamliners from Calgary to London (Gatwick), Paris and Dublin on April 28, May 17 and June 1, 2019, respectively. "Alberta's connectivity to the rest of the world is vital for our economy," said Ed Sims, WestJet President and CEO. "WestJet is investing in Alberta to bring further economic growth, boost tourism to the province, and to further position our city as an international aviation hub. We are excited to bring Albertans to the world and the world to Alberta." The international scheduled service between Calgary and London (Gatwick), Paris and Dublin will support 650 full-time jobs and CA\$100 million in total economic output. This is in addition to WestJet's yearly economic output of more than CA\$5 billion, that supports more than 32,000 direct and indirect jobs in Alberta. Overall WestJet's national economic impact on Canada annually generates CA\$17.4 billion and supports more than 153,000 jobs. The three new flights from the UK and Western Europe are expected to eventually bring up to 185,000 visitors to Calgary on a yearly basis, helping to also increase local tourism. The first of 10 Boeing 787-9 Dreamliners ordered by WestJet will arrive in Calgary early in 2019, with two more arriving by April. The aircraft will operate on domestic flights for crew training and regulatory compliance before the first scheduled international flight in April. WestJet also has options for an additional ten aircraft to arrive between 2020 and 2024. Hub locations and routes for the remaining seven aircraft have not yet been announced. (US\$1.00 = CA\$1.30 at time of publication.)

ADSSoftware has announced an official partnership with aircraft manufacturer **ATR**, the leader for regional aircraft up to 80 seats. The collabora-



United Airlines unveiled its state-of-the-art flight training center in Denver, Colorado

Photo: United

United Continental Holdings (United) has begun the expansion of its current flight-training Center in Denver, Ohio which will turn it into the biggest facility of its type. At a ceremony to mark the occasion on Tuesday October 9, United's CEO Oscar Munoz commented that this was a symbol of the carrier's rebirth. The current facility has seen existing buildings in the former Stapleton Airport grounds rededicated to the creation of a training center which, along with the construction of new buildings, will provide capacity for a total of 40 simulators which will be used not only for training United pilots, but also those of other airlines. 32 of the simulators are in existence and a further 8 will be housed in the new two-story building currently under construction. The oldest of the simulators at the facility is a Boeing 767 simulator for aircraft, which has been in use since the mid-1980s, while the newest are for Airbus A320 airliners and which have modern digital displays. In addition, the campus will have facilities where flight attendants can train on evacuation and other emergency procedures using the real exit row and aircraft door configuration of the more than nine aircraft types United currently flies. United has invested about US\$150 million renovating the 462,000 ft² of existing buildings, while the new, 100,000 ft² building is expected to cost US\$40 million. The city of Denver and the Colorado Office of Economic Development and International Trade have committed to paying United more than US\$13 million over the next eight years if the training center expansion hits certain benchmarks for job creation and capital investment. Each of United's 12,500 pilots will train at least every nine months at the facility, and the center, once construction is finished, will employ 850 people.

OTHER NEWS

tion is set to commence in October 2018. A leader in the manufacturing sector, the joint partnership between Airbus and Leonardo has over 200 operators in more than 100 countries, with over 1,500 aircraft sold to date. With a turnover of almost US\$1.7 billion, ATR aircraft are responsible for over 5,000 flights per day around the world. In addition to MRO and CAMO management, ADSOFTWARE will work alongside ATR to develop new processes and methods to integrate and manage key technical data, including migration to new aircraft and phase-in/phase-out processes. With these new features aircraft data integration will be quick and easy, allowing the operator to save time and money in the process.

Commsoft's MRO IT system, OASES, has been chosen by private charter and aircraft management company, **Interflight Technical Services**, based at Biggin Hill in Kent. Replacing the company's existing MRO IT software, OASES will be used for the CAMO control of two Hawker 800 business jets and will be deployed to support engineering operations in its hangar. Implementation of the OASES system is already underway. Renowned for the combination of its technical sophistication and intuitive user interface, OASES features a modular structure to provide for both flexibility and scalability. Interflight will be using the Core, Airworthiness, Planning, Material Management, Production, Warranty and Commercial modules which will be accessed through Commsoft's Private Cloud service.

Munich Airport has continued its impressive performance through the end of the third quarter 2018. Passenger traffic in the first three quarters of the year was up 3.0%, or nearly 1 million passengers, to a new record of over 35 million passengers. This dynamic trend produced a number of all-time highs for the airport in the third quarter alone: With over 13 million passengers, the airport set a new quarterly record. September 2018, with around 4.5 million passengers, entered the record books as Munich's busiest-ever month. On Friday September 28, the Bavarian hub handled more than 170,000 passengers on a single day for the first time in its history. There was also a 1% year-on-year increase in the number of take-offs and landings to more than 310,000 flights. During the same period, the volume of air cargo handled in Munich was about 3% lower, at approximately 262,000 tons. International traffic remains the main driver of the steady growth in the number of passengers travelling to and from Munich. Within Europe alone, more than 22 million passengers used Munich Airport's extensive route network. This represents an increase of 4.4%. Once again, the most popular country for travelers was Spain

(3 million passengers), followed by Italy (2.6 million). The long-haul segment posted an even higher growth rate than European traffic. Routes connecting Munich with intercontinental destinations carried more than 5.8 million passengers in the first nine months of 2018 – a 5.2% increase over the same period in 2017. Traffic to and from the USA accounted for the largest share in that segment, with an overall gain of 7.5% to approximately 2 million passengers

After a period of five years, **Singapore Airlines** has resumed direct non-stop flight to the U.S. with a 19-hour flight from Singapore to New York. The Southeast Asian carrier intends to also restart non-stop flights to Los Angeles and add San Francisco to its non-stop services next month. Back in 2013 the airline stopped its direct flights to Newark as high fuel prices at the time made the route, using four-engine Airbus A340-500 jets, unprofitable. Instead, the carrier flew to New York's JFK Airport via Frankfurt, and Los Angeles via Tokyo and Seoul. With the placement of an order for seven Airbus twin-engine A350-900ULRs (Ultra Long Range) in 2015 and the commencement of their delivery this month making Singapore Airlines the launch customer for this member of the A350 family, the first flight to New York will take place Thursday, October 12. The A350-900ULRs are fitted with just 161 business class and premium economy seats only, with no economy class seats. Based on travel industry data, non-stop ultra-long-haul flights can usually command an airfare premium of around 20 percent compared to those involving one or more stop. However, according to Brendan Sobie, Chief Analyst, **CAPA Centre for Aviation**, Singapore Airlines has been offering low initial fares on its U.S. non-stop routes for as little as S\$1,438 (\$1,040) return for a premium economy seat on its Singapore-Newark route. "While it's early days, there will be questions whether the latest attempt at U.S. nonstops will be profitable for Singapore Airlines given the very intense competition in the Singapore-U.S. market, rising fuel prices and the large number of premium seats Singapore Airlines has to fill on the seven newly delivered A350-900ULRs," Sobie is quoted as saying.

President Donald Trump has signed legislation passed by Congress which will extend FAA policy for a further five years under the FAA Reauthorization Bill. There are a number of provisions in the Reauthorization Bill which have drawn attention, in particular the "Seat Egress in Air Travel (SEAT) Act," which will force the FAA to set specific standards for minimum seat sizes on commercial planes, principally their width and the space between them. The FAA has been given a year in which to come up with the new guidelines, though many fear that the new regulations may end up codifying the tightest seat arrange-

ment that is currently in existence. However, while airlines have backed plans for the privatization of the U.S. air traffic control system, lawmakers have abandoned any plans for this to take place. Congressional negotiators have also dropped plans to clamp down on carriers which charge unreasonable fees. Subsequent to a number of incidents which involved the removal of passengers once they had boarded aircraft, known as 'involuntary de-boarding', usually to make room on crowded flights for crew members who will be operating on another aircraft at the flight's destination, this practise will now be barred. Legislation will also force carriers to be more transparent and efficient with the distribution of information regarding delayed and canceled flights. According to Transportation and Infrastructure Committee Chairman Bill Shuster (R-Pa.) "The many reforms in this law will help strengthen American leadership in aviation, create jobs, and improve safety and service for passengers."

INDUSTRY PEOPLE



Karen Clayton

- The International Air Transport Association (IATA) has announced that **Karen Clayton** will join IATA as the Association's Corporate Secretary, effective April 2019. Clayton comes to IATA from Air New Zealand where she has held the role of General Counsel and Company Secretary since 2016. As Corporate Secretary, Clayton will ensure the integrity of IATA's governance framework, including management of the Association's Board of Governors and its various committees. The IATA Board of Governors is elected by the Association's 290-strong membership and consists of CEOs from 31 airlines and IATA's Director General and CEO.



Youssef Bahsoun

- AJW Group has appointed **Youssef Bahsoun** as Technical Services Manager. Youssef will be based at AJW Technique, the company's state-of-the-art MRO facility in Montreal, and starts his new role on October 9. He will lead the key technical relationship with Bombardier

INDUSTRY PEOPLE

Business Aircraft as part of AJW's long-term repair management contract with them and will also manage component reliability for all of AJW's power-by-the-hour (PBH) customers in the Americas region. Bahsoun has extensive experience in the aerospace sector, especially components maintenance. During his career at Air Canada Technical Services (ACTS), he held the position of Sr. Manager Engineering Components Maintenance and chaired an AMC Industry Working Group on the "aspects of NFF and its impact on components reliability". Prior to Joining AJW Group, Youssef held senior positions at Air Canada, GAMCO / Gulf Air, ACTS / AVEOS and Emirates including the position of Chief of Office of Airworthiness for the airline's EASA Part 21 Design Organisation.



Guillaume Faury

- The Board of Directors of Airbus has selected **Guillaume Faury** as the future Airbus Chief Executive Officer (CEO). Faury, who currently serves as President Airbus Commercial Aircraft, will succeed

Tom Enders who remains CEO until the Annual General Meeting (AGM) on April 10, 2019, when the appointment of Faury as executive member of the Board will be submitted to shareholders. Guillaume Faury served in various senior management roles at Eurocopter from 1998 to 2008. Starting in Engineering, then Flight Test, he later became Executive Vice President for Commercial Programmes, then Executive Vice President for Research and Development. In 2009, Faury joined Peugeot S.A., where he served as Executive Vice President for Research and Development as a Member of the Managing Board. In May 2013, Faury returned to Airbus as CEO of Airbus Helicopters and in early 2018 he took the helm of Airbus Commercial Aircraft.

- Aer Lingus chief executive **Stephen Kavanagh** will step down on January 1, 2019 but will remain on the airline's board as a non-executive director. He will be succeeded as Chief Executive and Executive Director by **Sean Doyle**, who is currently British Airways director of network, fleet

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Aircraft Economic Life Summit 2018
November 20, 2018 – Gibson Hotel, Dublin, Ireland

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and alliances. Sean Doyle, originally from Cork, will take up his new role on January 1, 2019. He joined British Airways in 1998 and has undertaken financial, strategy, commercial and alliance roles for British Airways, culminating in his appointment to the airline's executive management committee in 2016.



Sam Abdelmalek

- Bombardier has named **Sam Abdelmalek** as Chief Transformation and Supply Chain Officer, effective October 10, 2018. Abdelmalek will report directly to **Alain Bellemare**, President and Chief

Executive Officer, Bombardier Inc. In this position, he will assume responsibility for the continued transformation of the company's operations and lead the company's supply chain activities to reduce costs and improve efficiency and quality to support Bombardier's growth objectives. Abdelmalek brings almost 30 years of aerospace and industrial experience to Bombardier. Most recently, he served as Vice President, Global Supply Chain at Pratt & Whitney.



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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	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-100	ORIX Aviation	V2522-A5	1445	2001	Q4/2019	Sale	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	V2527-A5	4603	2011	Q1/2020	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	Castlelake	V2527-A5	2161	2003	Q1/2019	Lease	Michael Hackett	Michael.hackett@castlelake.com	+44 20 7190 6120
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 Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26/3	29660	2007	Q1/2020	Lease	Oisín 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
B737-800					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

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ATR72-500F	Castlelake	PW100-127F	0585	1999	Now	Sale	Michael Hackett	Michael.hackett@castlelake.com	+442071906120
CRJ-200LR	Regional One	CF34-3B1	7369	2000	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
CRJ-900LR	Regional One	CF34-8C5	15111	2007	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-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
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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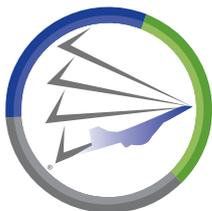
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THE AIRCRAFT AND ENGINE MARKETPLACE

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					
(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					
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
(1) CF34-8E5	Now - Sale / Lease	AerFin	Oliver James	Oliver.James@aerfin.com	+44 (0) 7930463293
(1) CF34-10E7	Now - Sale / Exchange	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CF34-8E5A1	Oct 18 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CF34-10E5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E6	Now - Lease				
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines					
(1) CF6-80C2A2	Oct 18 - Sale / Lease	Castelake	Stuart MacGregor	stuart.macgregor@castelake.com	+442071906138
(1) CF6-80C2A2	Dec 18 - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
CFM Engines					
(1) CFM56-7B26/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/3	Now - Lease				
(1) CFM56-7B27	Now - Lease				
(1) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-7B26	Soon - Lease		Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-3C1	Soon - 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
(1) CFM56-5A	Now - Sale		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CFM56-5B6/2P	Now - Sale		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CFM56-7B24/3	Soon - Sale/Lease/Exch.		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) CFM56-7B27	Now - Sale / Exchange		Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775



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(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
GEEx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GEEx	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
(1) PW123B/D/E	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 Kryz	rkryz@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
(1) PW4168	Soon - Sale	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
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-A5	Now - Sale / Exchange	Willis Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@wernereraero.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) GTC331-500B	Now - Sale/Lease/Exch.				
767-300ER 413K, 737-300 LANDING GEAR	Now - Sale/Lease/Exch.	AZURE RESOURCES INC.	Jeff Young	jeff@azureres.com	1-954-249-7935
GTC331-300A, GTC331-98DHF 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) GTC331-150RJ, (2) GTC331-100M,	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					
GTC331-9A (2), GTC331-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTC331-200, GTC331-250	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				
Neutral CFM56-5B & CFM56-7B QEC Kits	Now - Sale	CFM Materials	Michael Arellano	michael.arellano@cfmmaterials.com	+1 214-988-6676
(multiple) APS2300, (1) GTC331-350C	Now - Sale / Lease	AirFin	Nick Filce	Nick.Filce@aerfin.com	+44 7770 618 791
(1) GTC331-300A, (1) GTC331-9A					
GTC331-9A, GTC331-9B, GTC331-350C	Now - Sale/Lease/Exch.	Logix.Aero	Jean-Christian Morin	jcMorin@logix.aero	+33.6.4782.4262
GTC331-500B, GTC331-200/250,			Rich Lewsley	rlsley@logix.aero	+44.79.0021.8657
APS3200, APS2300, GTC331-129H					
APU GTC331-500	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		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
GTC331-9A, GTC331-9B	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
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