

# Weekly Aviation Headline News

## WORLD NEWS

### Qatar Airways and GE sign ground-breaking agreements

Qatar Airways and GE Aviation signed multiple agreements for GE engines. As part of the agreements, Qatar Airways selected the GENx engine to power its 30 new Boeing 787-9 aircraft along with a TrueChoice™ Flight Hour agreement to cover the maintenance, repair and overhaul (MRO) of the engines. Qatar Airways also signed a TrueChoice™ Flight Hour agreement for MRO services on its GE9X engine fleet that will power 60 Boeing 777X aircraft. The agreements are valued at over \$5 billion (USD).

### Hahn Air welcomes eight new airline partners

Hahn Air, the German airline and distribution specialist, announced the integration of eight additional airlines into its global network of more than 350 air, rail and shuttle companies in the second quarter of 2019. The new additions bring the total number of new partners for this year up to 22. Six of the newly integrated partners are expanding their distribution reach by using the Hahn Air product HR-169 and thereby making their flights available to travel agents on the Hahn Air HR-169 ticket

### BA announces Beijing move

British Airways has announced that all direct flights to and from Heathrow and Beijing will move to new state-of-the-art Daxing airport from 27 October 2019. British Airways is the first international airline to confirm it will move all operations to Beijing Daxing, in recognition of its importance in driving travel between China and the UK.



The Group needs significant new money.

Photo: Thomas Cook

## Thomas Cook bail out

As Chinese investment steps in

Package holiday and airline operator Thomas Cook has announced it is in discussion with the Chinese Fosun Tourism Group to make a substantial new capital investment as part of a proposed recapitalisation and separation of the Group.

Under the proposal, the Group is targeting an injection of £750 million of new money which would provide enough liquidity to trade over the Winter 2019/20 season and the financial flexibility to invest in the business for the future. At completion, the new money would comprise a capital injection and new financing facilities.

The recapitalisation proposal will require a reorganisation of the ownership of the Tour Operator and Airline businesses which is expected to result in Fosun owning a significant controlling stake in the

**“...the Board has decided to move forward with a plan to recapitalise the business...”**

*Peter Fankhauser, CEO, Thomas Cook*

Group Tour Operator and a significant minority interest in the Group Airline. The proposal envisages that a significant amount of the Group’s external bank and bond debt will be converted into equity, to be agreed

following discussions with financial creditors. The Group’s core lending banks are supportive of a recapitalisation and are engaged in constructive discussions with the Group to agree terms. The proposed recapitalisation will not impact trade creditors, Thomas Cook says.

Peter Fankhauser, Chief Executive of Thomas Cook commented: “After evaluating a broad range of options to reduce our debt and to put our finances onto a more sustainable footing, the Board has decided to move forward with a plan to recapitalise the business,

*Continued on page 3*

# MRO

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supported by a substantial injection of new money from our long-standing shareholder, Fosun, and our core lending banks.

“While this is not the outcome any of us wanted for our shareholders, this proposal is a pragmatic and responsible solution which

provides the means to secure the future of the Thomas Cook business for our customers, our suppliers and our employees.”

The recapitalisation proposal is subject to certain conditions including performance conditions, due diligence, further discussions and

reaching agreement with a range of company stakeholders (including the pension trustees, bondholders, other financial creditors and Fosun’s shareholder approval), and receipt of any regulatory and anti-trust clearances or approvals.

**AIRCRAFT & ENGINE NEWS**

**Avolon issues update for second quarter of 2019**

At the end of the second quarter of 2019, Avolon, the international aircraft leasing company, owned and managed a fleet of 530 aircraft, with total orders and commitments for 393 new-technology aircraft. Avolon executed a total of 24 lease transactions in the quarter comprising new aircraft leases, follow-on leases and lease extensions. The company delivered a total of 15 new aircraft to ten customers and transitioned 11 aircraft to follow-on lessees. Avolon sold 38 aircraft during the quarter including 34 regional aircraft and had a total of 149 airline customers operating in 60 countries. Furthermore, the company has ordered 140 CFM LEAP-1A engines to power 70 A320neo-family aircraft, valued at US\$2 billion at list prices announced at the 2019 Paris Air Show.

**TransNusa Aviation Mandiri takes delivery of one ATR 72-600 on lease from NAC**

Nordic Aviation Capital has delivered one ATR 72-600, MSN 1286, to PT TransNusa Aviation Mandiri on lease. TransNusa is a privately held, Indonesian regional airline operating scheduled domestic services from its main base at Makassar Sultan Hasanuddin International Airport and other bases at Kupang and Balikpapan to points in Nusa Tenggara, Kalimantan and Sulawesi. Starting this last June, the airline now offers a scheduled international flight between Kupang, Indonesia to Dili, Timor Leste. By the end of 2019, TransNusa will operate ten ATR aircraft and 31 routes connecting towns/cities in Kalimantan and Sulawesi.

**Qatar Airways and GE sign GENx and GE9X engines and services agreements**

Qatar Airways and GE Aviation have signed multiple agreements for GE engines. As part of the agreements, Qatar Airways selected the GENx engine to power its 30 new Boeing 787-9 aircraft along with a TrueChoice™ Flight Hour agreement to cover the maintenance, repair and overhaul (MRO) of the engines. Qatar Airways also

**SMBC Aviation Capital delivers Airbus A320-200 to Batik Air**



Batik Air

Photo: AirTeamImages

SMBC Aviation Capital has announced the delivery of one Airbus A320-200 aircraft (MSN 8942) equipped with two CFM56-5B4/3 engines to Batik Air, a member of the Lion Air Group. The aircraft and associated engines were delivered while located at the Airbus delivery center in Hamburg, Germany. This is the third aircraft delivered to the Lion Air group in 2019.

**Azores Airlines takes delivery of first of three A321LRs**



The first A321LR for Azores Airlines

Photo: Airbus

Azores Airlines has taken delivery of its first of three A321LRs to be leased from Air Lease Corporation (ALC), becoming the latest operator of the long-range single-aisle aircraft. Powered by CFM International’s LEAP-1A engines, the Azores Airlines’ A321LR comprises 190 seats in a two-class configuration (16 Business Class seats and 174 seats in Economy) offering premium wide-body comfort in a single-aisle aircraft cabin and with single-aisle operating costs. With this new A321LR, the Portuguese operator will continue its strategy of growth and network expansion to European destinations as well as transatlantic routes between the Azores and North America.

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signed a TrueChoice™ Flight Hour agreement for MRO services on its GE9X engine fleet that will power 60 Boeing 777X aircraft. The agreements are valued at more than US\$5 billion.

**Skyworld Aviation facilitates ERJ 145 sale to BAE Systems (Corporate Air Travel)**

Skyworld Aviation has announced the sale of an ERJ 145 to BAE Systems (Corporate Air Travel). The aircraft, serial number 145588, was originally delivered new to Swiss Air and then went on to operate with AeroMexico Connect for 11 years. The aircraft was later parked and sold to a third-party aircraft owner, based in the U.S. Skyworld Aviation worked closely with BAE Systems to manage a Return to Service work package which also included a full records review and base maintenance. Skyworld Aviation contracted Charles Taylor Aviation Asset Management to act for the Seller, whilst BAE contracted FlyerTech as its CAMO. The aircraft was successfully brought back into EASA certification and arrived at East Midlands Airport, U.K. on June 27, 2019 where it was painted by Airbourne Colours.

**Qatar Airways finalizes order for five 777 freighters**

On July 9, Boeing and Qatar Airways finalized an order for five Boeing 777 Freighters. The order, worth \$1.8 billion at current list prices, was previously announced as a commitment at the Paris Air Show in June. Qatar Airways has rapidly grown its air cargo operations to serve more than 60 global destinations, becoming one of the top international air freight operators in the world. The latest freighter

**Embraer’s “TechLion” E195-E2 kicks off global demonstration tour**



Photo: Embraer’s E192-E2 TechLion

Following its successful debut at the 53rd International Paris Air Show, Embraer’s newest Profit Hunter – the E195-E2 showcasing a stunning “TechLion” livery that covers the entire aircraft’s fuselage – will now begin its global demo tour. The first stop has been Xiamen, China, on July 8th, followed by several stops within China and Asia Pacific during the months of July and August. At each stop, Embraer will show the aircraft’s efficiency and quiet cabin. The E195-E2 is the largest of the three aircraft in the E-Jets E2 family. In November 2018, the E190-E2 traveled almost half of China and successfully completed the demo tour by flying to 11 cities (including Ulaanbaatar in Mongolia) in 20 days. The aircraft returned in May of this year and flew from Xining to Yushu Batang Airport, which sits at an elevation of 3,950 meters above sea level. In April, the E195-E2 received type certification simultaneously from three major world regulatory authorities – ANAC (the Brazilian Civil Aviation Agency), the FAA (U.S. Federal Aviation Administration) and EASA (European Aviation Safety Agency). The airplane will enter service with Brazil’s Azul Linhas Aéreas Brasileiras S.A. in the second half of 2019. Spanish airline Binter will also receive an E195-E2 later this year.

**Saudi flyadeal switches Boeing Max order to Airbus A320neo**

Saudi low-cost carrier flyadeal has announced that it will order 30 A320neo aircraft and options for a further 20 A320neo family aircraft. This is in response to continuing growth in passenger demand across domestic, regional and international routes. Deliveries of the flyadeal aircraft will commence in 2021. The allocation of the new aircraft to flyadeal follows from the agree-



Saud Arabian LCC flyadeal

Photo: AirTeamImages

ment which Saudi Arabian Airlines Corporation (SAUDIA) signed during the Paris Air Show in June this year. This order will result in flyadeal operating an all- Airbus A320 fleet in the future. Originally, flyadeal had selected 30 Boeing 737 Max 8s plus options on another 20 for its fleet-expansion but hadn’t finalized the order before the grounding of the MAX in March.

**Helvetic Airways sells fleet of Fokker 100 aircraft**

Helvetic Airways has sold its fleet of Fokker 100 aircraft and the entirety of Helvetic's spare engines, spare parts and tooling for these aircraft to Alliance Aviation Services Limited, of Australia. The five aircraft will support the current Alliance fleet of 44 Fokker aircraft. Helvetic Airways currently operates a standardized fleet of eleven Embraer E190-E1 aircraft. From this autumn onwards, these will be supplemented by the first of twelve new Embraer E190-E2s. In the medium-term future, Helvetic Airways will operate one of Europe's most advanced regional aircraft fleets.



Helvetic Airways

Photo: AirTeamImages

**Bombardier secures first order for Global 5500 aircraft**



Photo: Bombardier Global 5500

Bombardier has secured the first order for a Global 5500 aircraft to be operated from the West Coast of the United States. This transaction is valued at US\$46 million, according to current list prices. "The Global5500 aircraft offers the ultimate in performance, comfort, reliability and signature smooth ride," said Peter Likoray, Senior Vice President, Worldwide Sales and Marketing, Bombardier Business Aircraft. "It is ideally suited to meet the needs of our customers on the West Coast, connecting Los Angeles to London, Sao Paulo or Moscow (under certain operating conditions). This order is a resounding example of our newest Global aircraft's undeniable impact on the world of business aviation."

**BOC Aviation delivers first of three Airbus A330 Freighter aircraft to Sichuan Airlines**

BOC Aviation has delivered the first of three Airbus A330 Freighter aircraft committed for lease to Sichuan Airlines. All three aircraft are part of the Company's existing owned and managed portfolio. The remaining two aircraft are scheduled for delivery to Sichuan Airlines in the second half of 2019. Sichuan Airlines is a full-service carrier with more than 270 routes carrying nearly 30 million passengers annually. Established over 30 years ago, Sichuan Airlines' shareholders include three other airlines and its largest investor is the Sichuan provincial government. It currently operates an all-Airbus fleet with more than 140 single- and twin-aisle aircraft.



Sichuan Airlines

Photo: AirTeamImages

**AIRCRAFT & ENGINE NEWS**

deal builds on the airline’s 777 freighter order book as the airplane has become the backbone of Qatar Airways’ freighter fleet. It currently operates 23 freighters, including 16 Boeing 777 Freighters.

**VirginOrbit completes keydrop test**

VirginOrbit, Sir Richard Branson’s small satellite launch company, has successfully completed a key-drop test of its LauncherOne vehicle, the last major step in the development program of the company’s novel launch service. In the run-up to its first space shot, VirginOrbit has completed a steady progression of test flights with its “flying launch pad”. Cosmic Girl and LauncherOne vehicle — and this most recent achievement marks the beginning of the company’s transition to its orbital test flight launch campaign. On this flight, Virgin Orbit released a fully built, fully loaded — although inert — LauncherOne rocket from Cosmic Girl, a modified Boeing 747 that serves as the rocket’s carrier aircraft. This latest test flight began with a takeoff from the Mojave Air and Space Port at Mojave, CA, at 8:43 A.M. Pacific; the drop itself occurred at 9:13 A.M. Pacific from an altitude of 35,000 feet over a testing range at Edwards Air Force Base. The primary purpose of the test was to monitor the few critical seconds just after release, to ensure the rocket and aircraft separate cleanly and to observe how the rocket freefalls through the air. The drop test represents the last major step of a development program that began in 2015, focused not just on designing the LauncherOne vehicle but proving it out alongside the modified 747 that serves as the company’s carrier aircraft.

**Boeing deliveries slump by 37%**

The combination of Airbus deliveries increasing 28% for the first half of 2019 and Boeing deliveries falling 38% for the same period will likely see Airbus take over the crown of the world’s biggest plane maker by the end of the year, reversing the trend of the past eight years. Boeings reversal of fortune rests predominantly on the grounding of the 737 MAX jet after the fatal Lion Air and Ethiopian Airlines crashes with the likelihood that any further deliveries will not take place until December. According to Reuters news agency, for the first six months of the year Airbus delivered 389 aircraft and despite problems at its Hamburg, Germany plant, it is maintaining its published guidance for total 2019 deliveries at between 880 and 890 aircraft. However, Boeing still remains ahead of Airbus when it comes to wide-body jets. Despite posting net orders for 123 narrow-body jets, which includes the new A321 XLR which debuted at the Paris Air Show in June, Airbus had a negative net order book of 35 wide-body jets after taking into

**LCI successfully closes US\$75 million financing facility**



Photo: LCI AW189 helicopter

Lease Corporation International (LCI), the aviation division of the Libra Group, has successfully closed a new asset-backed helicopter financing facility in excess of US\$75 million. The new facility, led by CaixaBank along with a consortium of financial institutions, was arranged by National Westminster Bank Plc as part of an oversubscribed financing, and will be used to support the continuing growth of LCI’s helicopter fleet for civilian use. The new arrangement is CaixaBank’s first with LCI and follows the successful closing of a similar facility earlier this year with Close Brothers Aviation and Marine. LCI’s fleet, which comprises approximately US\$1 billion of assets in service, on order and under management, is focused on the latest technology light-twin, medium and super-medium helicopters manufactured by the leading helicopter OEMs, including Leonardo, Airbus and Sikorsky.

**Delta reports second-quarter revenue of US\$12.5 billion**



Photo: Delta Air Lines

Delta Air Lines has reported financial results for the June quarter 2019. Delta’s adjusted operating revenue of US\$12.5 billion for the quarter improved 8.7%, US\$1 billion higher than the prior year quarter. This revenue result marks a record for the company, driven by improvements across Delta’s business, including a ten percent increase in premium product ticket revenue and double-digit percentage increases in loyalty and third-party maintenance revenue. Adjusted earnings per share were US\$2.35, reflecting a 32% increase year over year and US\$1.8 billion of free cash flow. Cargo revenue during the quarter declined 17% driven by lower volumes and yield. Other revenue declined by US\$24 million as growth in loyalty and third-party maintenance was offset by US\$176 million lower third-party refinery sales.

**AIRCRAFT & ENGINE NEWS**

account cancellations. Boeing posted a negative total of 180 narrow-body jets ordered for the first half of 2019 after cancellations mainly for the 737 MAX, but posted a positive total of 61 orders for wide-body jets after cancellations. Boeing's figures do not include a surprise boost to the beleaguered 737 MAX program with the signing of a letter of intent at the Paris Air Show to purchase 200 737 MAXs by IAG, owner of British Airways.

**MRO & PRODUCTION NEWS**

**Aeroflot chooses Spatial to supply A321 Door Trainers**

Spatial, provider of cabin crew training simulators, has been chosen by Aeroflot to supply two A321 Door Trainers. The Door Trainers will be used to train Aeroflot's cabin crew to become completely proficient in the safe operation of the A321 aircraft emergency exits and doors including procedures for all normal, abnormal and emergency scenarios. The high-fidelity devices will simulate all faults that may ever be encountered on the A321 aircraft door types including door and handle jams, power assist failures, automatic and manual slide inflation failures and door indicator malfunctions. The trainers will provide all legacy and current A321 exit types, including the A321NX ACF semi-automatic Over Wing Exit (OWE) – as well as attendant stations, passenger seating, replica overhead stowage bins and both standard and emergency lighting. The simulators will be seamlessly controlled by an intuitive, easy-to-use Instructor Operator Station (IOS). After being manufactured at Spatial's state-of-the-art facility in Dubai, the A321 Door Trainers will be installed at Aeroflot's Crew Training Centre at Moscow's Sheremetyevo Airport.

**IAG's British Airways hit with proposed £183 million fine over passenger data theft**



Photo: British Airways

British Airways (BA), part of the International Airlines Group (IAG) has been hit with a proposed £183 million (US\$229 million) fine for a data breach which saw the credit card details, including the card number, expiry date and three-digit CVV security code, stolen from the reservations system for passengers who booked directly with the carrier over a two-week period during August and September 2018. In addition, one month after reporting this data breach, BA confirmed that data for passengers booking through its Avios scheme between April and July 2018 was also vulnerable. Over 200,000 passengers were subsequently at risk from the August-September data breach, though BA was keen to point out that as far as it was aware, none of those whose personal data was accessed suffered any financial loss as a consequence of the data breaches. The Information Commissioner's Office (ICO) said it intends to issue the airline with a penalty notice under the Data Protection Act, with the proposed penalty of £183.4m (US\$229 million) calculated at the rate of 1.5 per cent of BA's worldwide revenue in 2017, and which equates in this instance to approximately £4.00 (US\$5.00) per passenger projected to use the airline this year. Maximum penalties can extend to 4% of a company's total global revenue under newly changed rules. The Information Commissioner, Elizabeth Denham, said: "People's personal data is just that – personal. When an organization fails to protect it from loss, damage or theft, it is more than an inconvenience. That's why the law is clear – when you are entrusted with personal data you must look after it. Those that don't will face scrutiny from my office to check they have taken appropriate steps to protect fundamental privacy rights." IAG chief executive, Willie Walsh, said: "British Airways will be making representations to the ICO in relation to the proposed fine. We intend to take all appropriate steps to defend the airline's position vigorously, including making any necessary appeals."



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**FINANCIAL NEWS**

**AerCap leased, purchased and sold 82 aircraft in the second quarter 2019**

AerCap Holdings N.V. has published its major business transactions during the second quarter 2019: AerCap signed lease agreements for 48 aircraft, including four wide-body aircraft and 44 narrow-body aircraft, and purchased 11 aircraft, including six Airbus A320neo Family aircraft, four Boeing 787-9s and one Embraer E2. AerCap executed sale transactions for 23 aircraft, including nine Airbus A320 Family aircraft, three Airbus A330s, four Boeing 737NGs, one Boeing 737 Classic, one Boeing 777-200ER, one Boeing 777-300, two Boeing 747s and one Boeing 767 from AerCap's owned portfolio and one Airbus A300 from AerCap's managed portfolio. The company signed financing transactions for US\$1.5 billion in the second quarter 2019.

**Astronics to sell Airfield Lighting product line**

Astronics Corporation has signed a definitive agreement under which Hughey & Phillips, LLC, will acquire the Airfield Lighting product line from Astronics. The transaction, subject to customary closing conditions and adjustments, is expected to close on or before July 12, 2019. Peter J. Gundermann, Chairman, President and Chief Executive Officer, commented, "As we continue to build and grow our business, the Airfield Lighting product line comprised less than 1% of our 2018 revenue and no longer fits within our core offerings. This transaction allows us to focus our efforts and drive more profitable growth across our organization." Hughey and Phillips (H&P) is one member of a conglomerate of companies serving the aviation, transportation, security and medical markets from its headquarters in Urbana, Ohio. H&P is a global leader in obstruction and airport lighting products and has been serving the safety needs of the transportation industry since the 1930s.

**Norwegian posts increased revenue and reduced cost**

Norwegian's second quarter results are characterized by reduced growth and improved profitability, in line with the company's strategy. Despite the reduced production growth and grounding of the Boeing 737 MAX aircraft, the underlying operating result before ownership costs more than doubled from the same quarter in 2018. The underlying operating result before ownership costs was more than NOK2.3 billion, the highest ever in a second quarter and NOK1.2 billion higher than last year. The unit revenue (RASK) increased by 13% and the revenue per

**Connect Airways confirms receipt of EC approval of Flybe acquisition**



flybe

Photo: AirTeamImages

The European Commission has formally approved Connect Airways' acquisition of Flybe, Stobart Air and Propius. With Connect Airways taking over full management control of the business, Mark Anderson CEO of Connect Airways, with the leadership teams from Flybe and Stobart Air, will now focus on plans to grow Flybe's regional network, as well as expanding Stobart Air's successful franchise business. Connect Airways is a consortium founded by Virgin Atlantic, Stobart Group and Cyrus Capital Partners.

**Virgin Galactic to go public after merger with SCH**



VSS Unity Rockets to space on historic first spaceflight

Photo: Virgin Galactic

In a move that will bring in substantial investment at an optimum time, Sir Richard Branson's Virgin Galactic is to merge with Social Capital Hedosophia Holdings Corp (SCH), a special purpose acquisitions company. SCH will hold a 49% stake in the company while Virgin Galactic will retain a 51% stake and the new company plans a stock market listing for the end of the year, making it the first space tourism company to turn to public markets for funding. The company is expected to have a pro forma enterprise value of US\$1.5 billion and the majority of investment capital raised will be used to keep the Virgin Galactic program ahead of competitors such as Jeff Bezos' Blue Origin and Elon Musk's SpaceX. According to Virgin Galactic, Chamath Palihapitiya, founder and CEO of Social Capital Hedosophia has agreed to invest an additional US\$100 million at US\$10.00 per share at completion of the transaction. Palihapitiya will also become the new company chairman, with George T. Whitesides remaining as CEO. The selling equity owners of Virgin Galactic will receive US\$1.3 billion in total consideration, inclusive of US\$1.0 billion of common stock of the combined company valued at US\$10.00 per share and up to US\$300 million in cash consideration. In February this year Virgin Galactic flew its first 'test passenger' to the edge of space and to date has over 600 customer reservations, including the likes of Leonardo DiCaprio and Justin Bieber, who have paid deposits totaling approximately US\$80 million and representing US\$120 million in potential revenue for the US\$250,000 90-minute flight. The merger is expected to be completed during the second half of 2019, subject to approval by SCH's shareholders and other customary closing conditions.

**FINANCIAL NEWS**

passenger per kilometer (yield) increased by 11%. For the second quarter, the total revenue was more than NOK12 billion, an increase of 19% from the same period last year, primarily driven by intercontinental growth. Almost 10 million passengers flew with Norwegian this quarter, on par with the same quarter in 2018. The load factor was 88%, up 1.2 percentage points from last year. Norwegian's key priority is returning to profitability through a series of measures, including an optimized route portfolio and an extensive cost-reduction program. The production growth (ASK) in the second quarter was 6%, down from the peak growth of 48% in the second quarter of 2018. The company's internal cost reduction program #Focus2019 continues with full effect and achieved cost reductions this quarter were NOK554 million, consequently reaching the goal of NOK1 billion so far in 2019. (US\$1.00 = NOK8.54 at time of publication.)

**MILITARY AND DEFENCE**

**AAR awarded four-year MRO contract with Royal Netherlands Air Force**

Global aerospace and defense aftermarket solutions company AAR, has been awarded a four-year contract by the Royal Netherlands Air Force (RNLAf) to perform maintenance, repair and overhaul of the Chinook APU for Logistics Centre Woensdrecht (LCW). AAR will service the Chinook fleet in its Component Repair facility in Amsterdam, where AAR has been supporting European Participating Air Forces (EPAf) for over 30 years as a prime provider or subcontractor for repair management, component maintenance, supply chain and depot services.

**First Royal Canadian Air Force C295 makes maiden flight**



The first RCAF C295 during its maiden flight

Photo: Airbus

The first Airbus C295, purchased by the Government of Canada for the Royal Canadian Air Force's (RCAF) Fixed Wing Search and Rescue Aircraft Replacement (FWSAR) program, has completed its maiden flight, marking a key milestone towards delivery by the end of 2019 to begin operational testing by the RCAF. The contract, awarded in December 2016, includes 16 C295 aircraft and all In-Service Support elements including, training and engineering services, the construction of a new Training Centre in Comox, British Columbia, and maintenance and support services. The aircraft will be based where search and rescue squadrons are currently located: Comox, British Columbia; Winnipeg, Manitoba; Trenton, Ontario; and Greenwood, Nova Scotia.



  
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**PASSENGER STATISTICS - JUNE**

- In June, **Finnair** carried 1,388,000 passengers, 11.9% more than in the corresponding period of 2018. The overall capacity increased in June by 11.2% while Finnair's traffic increased by 12.2%. The Passenger Load Factor increased year-on-year by 0.8% points to 86.2%.
- **Air France KLM** has posted its total group passenger activity (**Air France, KLM** and **Transavia**) for June 2019. Traffic for the month increased 4.2%, while capacity was up 2.5% compared to the previous year. The load factor improved 1.5 points to 90.7%.
- The number of passengers traveling with **SAS** increased slightly compared to the same month last year and reached the highest reported number for a single month. Unit revenue continues to develop favorably and increased by 4.8%. Scheduled capacity increased by 0.5% and the load factor for June fell slightly by 0.4 points to 82.6%.

**OTHER NEWS**

**Mitsubishi Corporation (MC), Narita International Airport Corporation (NAA), Japan Airport Terminal Co., (JATCO), and JALUX Inc. (JALUX)** have established a joint venture with the Government of Mongolia: **New Ulaanbaatar International Airport (NUBIA)**. NUBIA has entered into a 15-year concession agreement with the National Development Agency of Mongolia concerning the operation of the New Ulaanbaatar International Airport, which is expected to open in the first half of 2020 upon completion of pre-operation work and relocation from the existing airport. Demand for air transport in Mongolia is rising, with Ulaanbaatar, its capital and thus most important political, economic and commercial hub, at the center of growth. In 2018, the number of passengers utilizing the existing airport reached 1.42 million, up 14% from the previous year. With continued investment in its abundant coal, mineral and livestock resources, demand for aviation services is expected to increase further in Mongolia and boost the importance of its airports. While the new airport is located approximately 50 km south of Ulaanbaatar city, its new geographical location enables aircraft to take-off and land from both ends of the runway. This is a significant improvement from the existing airport, where, due to mountains to the south and east, only one end of the runway can be used, and flight schedules are more often adversely impacted by weather conditions such as wind direction. The new airport has been realized through an ODA (Official Development Assistance) yen loan provided by the Government of Japan to the Government of Mongolia.

**France** wants to levy an environmental tax on airline tickets from the beginning of 2020. The eco-tax will be between €1.50 and €18.00, depending on the type of ticket, said French Transport Minister Elisabeth Borne on Tuesday. The tax will apply to all flights departing from France. There are exceptions for connecting flights as well as flights to the French Mediterranean island of **Corsica** and **French overseas territories**. All other domestic and intra-Euro-



Photo: Lufthansa A380

Starting in Summer 2020, **Lufthansa** will be taking off from Munich with two additional Airbus A380 aircraft. This will increase the Munich A380 fleet to a total of seven aircraft, with the remaining seven stationed in Frankfurt. Soon, Lufthansa passengers can experience the world's largest commercial aircraft on five routes from Munich, including the addition of two new destinations served by the double decker. For the first time, Lufthansa will be operating the A380 to Boston and serving San Francisco with an A380 year-round. In addition to these routes, Los Angeles, Beijing and Shanghai are also on Munich's A380 flight schedule for summer 2020. Currently, Lufthansa operates the Airbus A380 from Munich to Los Angeles, Beijing and Hong Kong. In the upcoming 2019/2020 Winter Schedule, the giant Airbus will operate to San Francisco, Miami and Hong Kong (until December 2019) as well as Shanghai (as of January 2020).



Cathay Dragon

Photo: AirTeamImages

**American Airlines** (American) has launched a codeshare agreement with **Cathay Dragon**, adding services to four new destinations and increased services to three existing markets in Southeast Asia. American will place its code on select Cathay Dragon flights from Hong Kong International Airport (HKG), providing American's customers seamless connecting service to seven cities beyond Hong Kong. The new codeshare flights will begin July 11. Hong Kong-based Cathay Dragon is a wholly owned subsidiary of **Cathay Pacific Group** and an affiliate member of oneworld®. The airline's network covers 53 destinations across the Asia-Pacific region, including 23 destinations in mainland China. The codeshare relationship with Cathay Dragon will further strengthen American's existing partnership with the Cathay Pacific group in the years to come.

**OTHER NEWS**

pean flights will have a levy of €1.50, according to the Minister for Economy Class Tickets. The environmental tax for a business-class ticket will be €9.00. Tickets to destinations outside Europe will be taxed at €3.00 in economy class and €18.00 euros in business class, Borne also explained. The state wants to collect up to €182 million annually. The money would then be invested in more-environmentally friendly infrastructures, in particular the rail system. The pressure on airline shares increased with the news. **Lufthansa** shares fell by 2.7 percent to €14.81. The shares of other airlines such as **Air France-KLM**, **IAG**, **Ryanair** and **EasyJet** also fell on Tuesday afternoon. (€1.00 = US\$1.12 at time of publication.)

Starting July 10, **Air Italy** has added Athens as a new destination to its network, thanks to the signing of a new Special Prorate Agreement with **Aegean Airlines**. Air Italy passengers travelling from its four U.S. destinations – Los Angeles, San Francisco, Miami and New York – and from Toronto can now easily reach the Greek capital via Air Italy’s Milan Malpensa hub, continuing with flights directly to Athens on Aegean Airlines. In addition, all Air Italy customers departing from the main airports of central and southern Italy, such as Rome, Naples, Palermo, Catania, Lamezia Terme, Cagliari and Olbia will now have the opportunity to fly to Athens via Malpensa.

**CAE** is expanding its training capability in Europe with a new flight training location based in Oslo, Norway. “This expansion of our global training network will support the impressive pilot demand of airlines and operators based in the region – we estimate that there will be a need for more than 90,000 new professional pilots in Europe, Middle East, and Africa over the next decade,” said Nick Leontidis, CAE’s Group President, Civil Aviation Training Solutions. With this expansion, CAE will now be delivering pilot creation programs at CAE Oslo, adding to its existing cadet training capability in Brussels, Belgium; Madrid, Spain and Oxford, U.K. This additional aspiring pilot training location will further allow CAE to meet the pilot creation needs of airlines and will offer aspiring pilots in the region a new Airline Transport Pilot License (ATPL) program. CAE Oslo will now offer complete cadet-to-captain training as it already serves the growing pilot training needs of multiple Scandinavian airlines with its modern classrooms, six full-flight simulators including two Boeing 737NGs, a King Air B200 and a B250, a De Havilland Canada Dash 8, and a Sikorsky S92 as well as one Boeing 737NG flight training device and cabin trainer.



Photo: Vienna Airport

July 11, saw the ground-breaking ceremony for a large-scale terminal modernisation at **Vienna Airport**. A major investment of about €500 million is for the renovation of Terminal 2 and the Pier East and construction of a large additional building, the “T3 Southern Enlargement” with 70.000 m². It is expected that Vienna Airport will be a construction site for four years. The advantages for passengers will be greater comfort in travelling, a new central security checkpoint, an additional baggage claim area, more space at the gates and attractive new shopping and food and beverage offerings.

**Munich Airport** posted significant gains in passenger numbers in the first six months of the 2019 operating year. The latest figures set a new half-year record of 22.7 million passengers – an increase of approximately 5% as compared to the first six months of 2018. The number of take-offs and landings was also higher, increasing by almost 3% to around 205,000 aircraft movements in total. In the cargo segment, which is experiencing a slowdown throughout Europe, the total volume handled in the first half of the year amounted to around 162,000 tons. This represents a year-on-year decline of nearly 6%. The most powerful growth driver at Munich Airport remains the steadily increasing demand for international travel. The number of passengers travelling between Munich and international destinations in the first half of 2019 was 1 million higher than in the same period a year earlier. Disproportionate growth was seen especially in the intercontinental segment, where growth in total passengers, at 10.6%, was more than double the Europe-wide growth rate (4.5%).



Photo: Munich Airport

**INDUSTRY PEOPLE**



Hervé Rousselle

- Universal Avionics (UA), has appointed **Hervé Rousselle** to the position of Regional Sales Manager for Europe. Based out of Lyon, France, Hervé is responsible for UA’s product sales and overall market growth in France, Luxemburg, Italy, Belgium, and French-speaking areas of Switzerland. Hervé brings over 20 years of business and general aviation sales experience to UA and prior to joining the company, he held various sales positions at GE Aviation,

Parker Hannifin Corporation, and Dover Corporation.

- IBA Group, the independent aviation advisory, valuation, and consulting firm has expanded the remit of Chief Operating Officer, **Dr Stuart Hatcher**, to include the role of Managing Director – Aviation Services where he will steer IBA’s principal business divisions of Valuations, Advisory and Asset Management. In addition, the organization has brought in respected industry expert, **Terry Dawson**, as Managing Director – Digital, to lead data intelligence services and develop the business strategy for IBA.iQ. This intuitive and comprehensive online platform provides essential Fleet, Valuation and Trend market intelligence to the global aviation leasing, operating, finance and MRO community.

INDUSTRY PEOPLE



Chris Emerson

• Airbus has appointed **Chris Emerson** President of Airbus Defense and Space, a subsidiary of Airbus Americas, effective July 1, 2019. Emerson previously served as President of Airbus Helicopters and head of the North America region. Emerson's new role moves him from the Airbus Helicopters headquarters in Grand Prairie, Texas to the Airbus Defense and Space headquarters in Herndon, VA. With this leadership change, Airbus Helicopters government and military programs, including the UH-72A Lakota and business functional roles supporting them, will move to Airbus Defense and Space, reporting to Emerson. The programs and employees transitioning to Airbus Defense and Space will continue operations in Grand Prairie, Texas. **Romain Trapp** will succeed Emerson as President of Airbus Helicopters and Head of the North America Region for helicopters.



John O'Donnell

• Effective July 1, 2019, **John O'Donnell** has been named Chief Executive Officer of Safran Aerosystems. O'Donnell started his career in 1987 at Air Cruisers, successively holding the positions of design engineer, manufacturing engineering supervisor and Vice President of Engineering. In 2008, he was named President of Air Cruisers Company (now Safran Evacuation Systems). From 2015 until this latest appointment, O'Donnell was CEO of Zodiac Aerosafety Systems (now Safran Aerosafety). At the same time **Sébastien Weber** has been named Chief Executive Officer of Safran Passenger Solutions. Weber started his career in 1996 at ECE (which later became Zodiac Aero Electric). He held several different positions before moving to the



Sébastien Weber

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

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Services branch in Hong Kong, and then created Zodiac Services Asia in Singapore in 2008. He moved to the Cabin branch in 2011 as business development manager, working with airlines. In 2012 he joined Zodiac Water & Waste Aero Systems in Carson, California. From 2016 until this latest appointment, he was CEO of the Fluid and Water & Waste Division. O'Donnell and Weber also become members of the Safran Executive Committee.



Bjørn Kjos  
Photo: Kristoffer Sandven

• After 17 years as the CEO of Norwegian Air Shuttle, **Bjørn Kjos** will leave the position and continue in a new role as an advisor to the Chairman, with effect from July 11. Until Norwegian appoints a new CEO, CFO **Geir Karlsen** will act as interim CEO, while Chairman **Niels Smedegaard** will take on a more active role in the management. Bjørn Kjos has been the Chief Executive Officer (CEO) of Norwegian since October 2002. He is one of the founding partners of Norwegian Air Shuttle and was the Chairman of the Board from 1993 to 1996. Kjos was also Chairman during the start-up of the Boeing 737 operation from June to September 2002.



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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	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	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	-(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-(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	-(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	1700123		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700119		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayan	Auvinash.Narayan@aerfin.com	+44 (0) 7766384581

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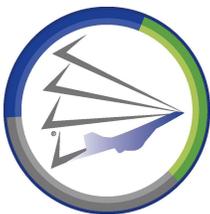
# THE AIRCRAFT AND ENGINE MARKETPLACE

## 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
<b>AE3007 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>CF34 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
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
<b>CF&amp; Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) CF6-80C2A2	Dec 2019 - Sale / Lease	Castlelake	Stuart MacGregor	stuart.macgregor@castlelake.com	+44 2071906138
(1) CF6-80C2B1F	Jul 2019 - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
<b>CFM Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) CFM56-5B	Q3/2019 - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) CFM56-5B4/3	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-7B24	Soon - Lease				
(1) CFM56-7B24E	Soon - Lease				



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## 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
(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@werner aero.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
<b>JT8D and JT9D Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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
<b>GE90 Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
<b>GENx Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(2) GENx1B74/75 Propulsor	Soon - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
<b>LEAP Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(1) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) LEAP-1A33	Soon - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
<b>PW Small Engines</b>	<b>Sale / Lease</b>	<b>Company</b>	<b>Contact</b>	<b>Email</b>	<b>Phone</b>
(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				
(2) PW121	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(2) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW150A	Now - Sale/Lease/Exch.				
(2) 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
(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@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.				
Trent 552 Inlet Cowls & Fan Cowls	Now - Sale/Lease/Exch.				
Trent 892 Inlet Cowls and Fan Cowls	Now - Sale/Lease/Exch.				
CFM56-5B 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.				
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	rlewsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
APU GTCP 331-500	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 / CFM56/ PW2000 & Bootstrap kits		National Aero Stands		support@stands.aero	+1 305-558-8973
GTCP131-9A, GTCP 131-9B	Now - Sale / Lease	Werner Aero Services	Julien Levy	jlevy@Wernereraero.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@wernereraero.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