

Weekly Aviation Headline News

WORLD NEWS

Alaska Airlines expands on West Coast

Alaska Airlines reaffirms its commitment to the West Coast with new, nonstop service from the Pacific Northwest and the state of Alaska in the north, and from San Francisco, Los Angeles and San Diego in the south. Alaska Airlines is adding new routes and additional frequencies. Starting in early January, passengers will be able to travel eight new routes, which should appeal to both leisure travellers and those flying for business. Alaska's passengers can connect with the airline's Global Partners at gateway airports on the West Coast – such as Los Angeles and San Francisco.

Lufthansa Systems launches inflight gaming

Lufthansa Systems announced that it will be showcasing the new inflight gaming component on its BoardConnect open IT platform at this year's Airline Passenger Experience Expo (APEX EXPO) in Los Angeles from September 9-12. Lufthansa Systems' BoardConnect technology enables airlines to use the onboard IT platform for their specific applications, with possibilities extending far beyond mere entertainment.

Uganda Airlines commences operations

Uganda has relaunched its national carrier, Uganda Airlines, as it hopes to take a slice of the East African aviation business that is currently dominated by other operators like Ethiopian Airlines and Rwandair. Its revival will "reduce the cost of air transport and ease connectivity to and from Uganda", Prime Minister Ruhakana Rugunda said in Kampala. The airline received its first two CRJ900s in April. Two more of those planes are expected next month, according to the airline.



New digital cargo booking offerings are increasing.

Photo: AFI-KLM

Electronic cargo booking takes off

Air France-KLM and Kuehne + Nagel join forces

Kuehne + Nagel and Air France KLM Martinair Cargo (AFKLM Cargo), two leading players of the airfreight industry, have joined forces to improve integration of their electronic booking processes.

an airfreight carrier and a global logistics provider create a direct system-to-system connection that transforms manual quotation and capacity booking process into a digital automated solution, fos-

AFKLM Cargo's full digital offering, including ad-hoc quotations, capacity availability inquiries, dynamic pricing and real-time e-booking functionalities. Following the successful proof of concept,

In a proof of concept that was successfully brought to conclusion in July, the two companies enabled total host-to-host connection through application programming interface (API) allowing for a system-based, integrated and interactive match between available capacity and demand. It is the first time that

"Enriching Kuehne + Nagel's in-house systems with our digital services is another step towards the digitisation of our industry."

Marcel de Nooijer, EVP Air France-KLM Cargo and Managing Director of Martinair

tering collaborative relationships and next-generation supply chain practice.

Its hoped that users will benefit from a seamless experience with

both companies have agreed to further develop the solution and to start the roll-out in Europe and South Asia Pacific.

Yngve Ruud, Member of the Managing Board of Kuehne + Nagel, responsible for airfreight, says: The successful conclusion of our proof of concept with Air France KLM

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MRO

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Martinair Cargo is a further step forward in eTouch, Kuehne + Nagel’s digital transformation process and initiative to offer a seamless digital customer journey. Thanks to the new interface, we increase speed, accuracy and efficiency – to the benefit of our airfreight customers all over the globe.”

Marcel de Nooijer, EVP Air France-KLM Cargo and Managing Direc-

tor of Martinair, adds: “At Air France KLM Martinair Cargo, we keep innovating to provide connected and tailored solutions to our business customers around the world. In this context, enriching Kuehne + Nagel’s in-house systems with our digital services is another step towards the digitisation of our industry.”

AIRCRAFT & ENGINE NEWS

Qantas Freight welcomes first Boeing 747-8F freighter

Qantas Freight has welcomed a new addition to its fleet with the first of two Boeing 747-8F freighter aircraft touching down in Sydney on August 27. The next-generation freighters will be operated by Atlas Air, on behalf of Qantas. Each aircraft offers 20% more freight capacity and space for seven extra cargo pallets compared to the 747-400F. The two freighters will operate between Australia, China and the USA, with additional routes currently being explored. The second 747-8F aircraft will enter service at the end of August. While the aircraft will be painted in Atlas Air livery, the Qantas Freight logo will be displayed on either side of the nose and underneath the freighters’ nose cargo door.

NAC delivers one leased Embraer E190 to HOP!

Nordic Aviation Capital (NAC) has delivered one new Embraer E190, MSN 19000768, to HOP! on lease. This is the third aircraft to deliver as part of a seven-aircraft lease agreement. HOP! is a subsidiary airline of the AIR FRANCE Group and operates flights for Air France in several regions of France and Europe.



HOP!

Photo: AirTeamImages

Swedish Air Ambulance Organization opts for six Pilatus PC-24s



PC-24 Kommunalförbundet Svenskt Ambulansflyg (KSA)

Photo: Pilatus

The Kommunalförbundet Svenskt Ambulansflyg (KSA), the Swedish Air Ambulance Organization, has opted for six Pilatus PC-24s in a fully equipped air ambulance configuration. These PC-24s will provide aeromedical care across Sweden from 2021. KSA is a national organization formed, mutually owned and financed by all 21 regions in Sweden. The regions are responsible for ensuring that everyone living in Sweden has equal access to good healthcare. Time is the essence for patients in a medical emergency and given the vastness of Sweden, the establishment of a national air ambulance service provides all residents with access to rapid, professional aeromedical care. Combining the speed of a jet with the ability to use short runways – one of the great strengths of the PC-24 – the super-versatile jet from Pilatus is the ideal aircraft for KSA.



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EgyptAir's first A220-300 makes maiden flight



Egypt Air's first A220-300 takes to the skies

Photo: Airbus

The first A220-300 for EgyptAir has successfully completed its inaugural test flight from the Mirabel assembly line. The first of 12 aircraft EgyptAir has on order is due to be delivered to the Cairo-based airline in the coming weeks. The aircraft, which is outfitted with a brand-new cabin layout of 134 seats, will now enter its final phase of completion before delivery.

Second five-bladed H145 prototype performs maiden flight

The second prototype of the new five-bladed H145 helicopter took off for its maiden flight at the Airbus Helicopters site in Donauwörth, at the beginning of August. The helicopter will be used for additional flight tests to achieve EASA certification of the new five-bladed H145 in early 2020. The first prototype is currently performing a high-altitude test campaign in South America. The second prototype will be mainly used for autopilot testing, performance and airframe structural validation. The new H145, which was unveiled at Heli-Expo this year in Atlanta, offers 150 kg of additional useful load, while also raising the bar for in-flight comfort, simplicity, and connectivity.



The second prototype of the five-bladed H145 helicopter

Photo: © Patrick Heinz

PowerJet delivers 400th SaM146 engine to SCAC



Sukhoi SuperJet 100

Photo: PowerJet

Less than ten years after the first SaM146 delivery, PowerJet has delivered the 400th engine to Sukhoi Civil Aircraft (SCAC) final assembly line. PowerJet supplies SCAC with a purpose-designed, integrated propulsion system to power the Sukhoi SuperJet 100 regional jet. Over the years, PowerJet has continued to develop and extend its capacities to deliver SaM146 engines in line with the requirements of SCAC. Within PowerJet, Safran Aircraft Engines develops the high-pressure core, the accessory gearbox, and the control system. The French company is also responsible for propulsion system integration and flight tests. UEC Saturn develops the fan module, the low-pressure compressor and turbine, and is responsible for final engine and ground tests in its facility in Rybinsk, Russia. Since starting revenue service in 2011, the SaM146 has logged more than 1.3 million flight hours with approximately 15 operators around the world. The fleet-leader engine operated by Yakutia has logged more than 9,600 flight hours without removal.

Norwegian Airline Widerøe to partner with Rolls-Royce on zero-emissions aviation program

With the Norwegian government aiming for zero emissions domestic aviation by 2040 and Scandinavian airline Widerøe, hoping to ‘electrify’ its current regional fleet of approaching forty Dash-8 aircraft by 2030, the announcement of a joint research program between the airline and engine maker Rolls-Royce at a Clean Aerospace event at the British Embassy is a further notable step towards such targets. The aim of the program will be to develop an electrical aircraft concept. Rolls-Royce’s comprehensive electrical and systems design experience will see them able to advise on all aspects of the concept. The first phase, which is already underway, involves operational studies and concept proofing. The research is being supported by the Norwegian Government and Innovation Norway, and the Minister of Climate and Environment, Ola Elvestuen, who has on several occasions put forward the suitability of the Norwegian STOL network as a test bench for the development of zero-emissions aircrafts. “We are aiming to have emission-free commercial flights in the air by 2030. Partnering with Rolls-Royce for this research programme puts us one step closer to reaching that goal,” said Andreas Aks, Chief Strategy Officer, Widerøe. Alan Newby, Director, Aerospace Technology & Future Programmes at Rolls-Royce added, “We’re delighted to be part of this electrical aircraft research program and applaud the high level of ambition that Norway is adopting toward zero-emissions aviation.” The joint program is expected to last for 2 years. “The development of electric aviation looks promising, but we need to progress faster. We are therefore pleased to have the world’s most renowned engine manufacturer onboard with us on this pioneering green journey” said Andreas Aks, Chief Strategy Officer at Widerøe.



Photo: © Widerøe Dash8-Q400

World’s largest fire-fighting aircraft deployed over Amazon region



Air Tanker 944 at Viru Viru International Airport in Bolivia, 747-Global-Supertanker

Photo: Global SuperTanker Services

Viru Viru International Airport near Santa Cruz de la Sierra is Bolivia’s most important airport. From the end of last week a red and white jumbo jet is taking off up to four times a day from the 3.5-kilometer-long runway. A “Global Supertanker”, the largest fire-fighting aircraft in the world and it is there at the request of the government of Bolivian President Evo Morales to help fight the fires in the Amazon savannah region of Chiquitania. The home base of the converted Boeing 747-400 is in Sacramento, California and it is operated by Global SuperTanker Services. “The Spirit of John Muir differs from other firefighting planes not just because it is capable of variable rate drops,” commented Jim Wheeler, President and CEO of Global SuperTanker Services when the four-engine aircraft was first converted. “As the world’s largest aerial firefighting asset, the John Muir can fly 600 miles per hour for long ranges at efficient altitudes, reaching and combatting any fire in the Western U.S. in less than three hours.” The aircraft bears the name “Spirit of John Muir” after the Scottish-American natural philosopher who, as one of the co-founders of the Sierra Club, brought nature conservation to the USA. On the tail fin, the white number “944” is emblazoned on a red background, an internal registration number of the operator. The aircraft, which was first used as a passenger aircraft for Japan Airlines and later as a freighter for Evergreen International, is particularly unique because of what will be found in its interior: There are eight pressurized tanks that, combined, can hold up to 90,000 liters (20,000 gallons) of water or fire-retardant chemicals. The liquids can be pumped out through four individual openings in the hull which can either be emptied simultaneously with great force or discharged more slowly to create artificial rain.

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MRO & PRODUCTION NEWS

Skyways Technics Asia branch obtains CAAM Approved Maintenance Organization certificate

Skyways Technics Asia branch has obtained CAAM (Civil Aviation Authority of Malaysia) approval to become an Approved Maintenance Organization. This new certification will enable its ATR-focused composite and leading edges repair shop activities to be in full compliance with Malaysian operator's quality requirements, and this also constitutes the first step towards other foreign approvals to be applied for and received over the coming months.

Silk Way Airlines entrusts TBD to deliver towable passenger stairs to its Silk Way Ground Handling branch



TBD has delivered eighteen sets of towable passenger stairs to the Ground Handling branch of Silk Way Airlines in Azerbaijan
Photo: TBD

TBD, the British manufacturer renowned for professionally engineered ground support equipment and specialist access solutions for the global aviation industry, has delivered eighteen sets of towable passenger stairs to the Ground Handling branch of Silk Way Airlines in Azerbaijan. The total order, worth over was focused on a general upgrade for Heydar Aliyev International Airport in Baku. In addition to towable passenger stairs, TBD has recently supplied a significant quantity of baggage trailers, container dollies and pallet dollies for Silk Way's ground handling needs.

Semmco wins contract with JetBlue Airways



Semmco to supply access platforms and ground support equipment to JetBlue line stations
Photo: Semmco

Semmco, an innovative engineering company that designs and manufactures a wide range of aviation maintenance solutions, with a U.S. manufacturing base in Arlington, Texas, has signed a contract with JetBlue, a major carrier in the U.S., Latin America and the Caribbean. Semmco will be supplying access platforms and ground support equipment to JetBlue line stations across the U.S. The contract will be delivered over the next 12 months and represents Semmco's first major order since opening its U.S. office and manufacturing facility in January 2019. Semmco's bid proved successful in the competitive contract process and was recognized for its complete range of equipment and capabilities for the Airbus A320 family. Semmco's equipment is designed by engineers for engineers and offers new innovations in aviation maintenance for the American market. In June, Semmco delivered eight access platforms to its first line station in Palm Beach, Florida. This forms part of the total order of 151 units that Semmco will be providing to 11 line stations in states across America, including California, Virginia, New York, New Jersey and Massachusetts.

American's maintenance base in Tulsa to hire more than 400 new team members

American Airlines is expanding the work conducted at its maintenance base in Tulsa, Oklahoma (Tech Ops – Tulsa), resulting in the need to hire more than 400 new team members. Over the next few months, additional maintenance work will be sent to Tech Ops — Tulsa, including scheduled maintenance work on the Boeing 787 fleet. This work will require the skills of more than 400 new Tech Ops team members in various areas to assist with the additional work coming to the base. The new team members, primarily Federal Aviation Administration-licensed mechanics, will focus on various maintenance areas, including aircraft overhaul, landing gear overhaul for the Boeing 737 and 777 aircraft, CFM56 engine maintenance and Airbus A321 interior modifications. In late 2019, the base will receive its first 787 aircraft to undergo scheduled maintenance checks. Additionally, the base will increase its 777 and 787 maintenance work and will make investments into the Landing Gear Shop enabling greater production. More than 5,200 people currently work at the base with 22 buildings on the main base, including 3.3 million ft² of hangar and shop space sitting on 330 acres.



Tech Ops- Tulsa

Photo: American Airlines

Comlux gets fourth ACJ320neo completion order



Comlux celebrates the 4th ACJ320neo completion order

Photo: Comlux

Comlux’s Completion division has been selected by DC Aviation Group to complete the VIP interior of an ACJ320neo aircraft. This new signing consolidates Comlux Completion’s order book with a total of four ACJ320neo VIP cabins contracts signed to date. Before flying to Comlux’ Indianapolis facilities, the aircraft, belonging to an undisclosed customer of DC Aviation Group, is to be delivered green by Airbus in November 2019. DC Aviation emerged in 2007 from the former DaimlerChrysler Aviation, a DaimlerChrysler AG subsidiary that was founded in 1998. With branches in Dubai, Malta and additional locations in Moscow and Paris, its international presence keeps growing steadily. During its 20-year corporate history, DC Aviation has acquired comprehensive experience in aircraft management.

Gulfstream expands MRO operations in Appleton, Wisconsin

Gulfstream Aerospace has officially expanded its maintenance, repair and overhaul (MRO) operations at Wisconsin’s Appleton International Airport with the opening of a newly built aircraft maintenance facility. The facility has been operational since Aug. 10. The nearly 190,000 ft² building, northeast of the airport terminal, was constructed with an investment of approximately US\$40 million. The expansion to the Appleton service center includes 101,853 ft² of hangar space, which will accommodate 12 Gulfstream G650ER or G650 aircraft. In addition to offices, back shops and general support space, the expansion adds a new sales and design center and increased customer access to Gulfstream’s design portfolio. The project, announced in February 2018, has resulted in nearly 100 new jobs at Gulfstream Appleton, with the potential for more in the next few years.



On August 10, Gulfstream officially opened its new MRO service center in Appleton, Wisconsin
Photo: Gulfstream

FACC manufactures radomes for Airbus A220



Airbus A220

Photo: Airbus/S. Ramadier

Austria-based FACC, a leading technology partner of the aerospace industry, has been commissioned by Bombardier Aviation to manufacture radomes for the Airbus A220, in addition to the Bombardier Challenger and Global business jet families. Deliveries for the A220 commercial aircraft are scheduled to start in 2020. Bombardier and FACC can look back on a long-standing partnership as the Upper Austrian aerospace company has been collaborating with the Canadian aircraft manufacturer ever since it was founded 30 years ago. Over the years, FACC has developed into a renowned partner to Bombardier through continuous innovation and efficient state-of-the-art manufacturing processes. FACC will start delivery of the radomes in 2020 and will manufacture them for the Airbus A220 under a life-of-program contract. Radomes are part of the cockpit section protecting the radar antenna. Stability, weight, reliability as well as minimal attenuation of the signal transmitted or received by the antenna are critical features of these components. In addition, parts must have high-strength properties to protect the radar antenna in the event of a bird strike or hail at high speeds.

Rolls-Royce to provide TotalCare Flex services for Air Canada's Trent 700 fleet



Photo: © Rolls-Royce

Rolls-Royce has signed a new TotalCare® Flex agreement with Air Canada that will ensure the availability of the airline's Trent 700 until fleet retirement. The agreement marks a new milestone for TotalCare Flex, designed for owners and operators of mature engines. It is the first to be signed for the Trent 700, which entered service in 1995, and is in addition to TotalCare Flex agreements on Trent 800 and Trent 500 engines. To date, the Air Canada fleet of Trent 700-powered Airbus A330s has achieved more than 700,000 flying hours. With the first aircraft now reaching approximately 20 years in service, the reliability and durability of the Trent 700 is unparalleled.

S7 Technics to maintain Embraer E170s at Irkutsk line station



Embraer E170

Photo: S7 Technics

S7 Technics' Irkutsk line station has won approval from the Bermuda Civil Aviation Authority (BCAA) to provide line maintenance services for the Embraer E170 aircraft type. Previously, the only facility able to maintain Embraer E170s in Siberia and the Russian Far East was the S7 Technics base at Novosibirsk's Tolmachevo airport where specialists have been performing periodic maintenance checks on the aircraft type for two years. S7 Technics' Irkutsk line station won its authorization to perform line maintenance works on the E170 aircraft in August and the organization's specialists plan to start maintaining the type within the fleet of S7 Airlines – the only Russian operator of the E170 – in September.

FINANCIAL NEWS

Thomas Cook secures bailout from Fosun, banks and bondholders

Thomas Cook has announced a comprehensive restructuring deal that will save the struggling travel agent and airline operator. China's Fosun Tourism will acquire a 75% stake in the Group Tour Operator and a 25% stake in the Group Airline, which includes German carrier Condor along with U.K., Spanish and Scandinavian operations, for £450 million. Additionally, lenders' debt will be converted into equity, with banks and bondholders consolidating and converting £450 million of debt into a 25% stake in the Group Tour Operator and a 75% stake in the Group Airline. While the deal guarantees the survival of Thomas Cook, the recapitalization plan is subject to a legally binding agreement between the parties, but shareholders will be left with a severely diluted holding in the Group. In May 2018 shares in Thomas Cook were trading at £1.50, but today were trading at just above £0.06, having dropped 12% once news of the deal was confirmed. Established in 1841, Thomas Cook is the oldest surviving name in the travel industry and was responsible for the introduction of the first 'package holiday'.



Photo: © Thomas Cook

However, an unusually hot summer in 2018, combined with high levels of debt and a highly competitive marketplace saw the Group struggle to survive. Current debt levels meant that Thomas Cook had to sell three million holidays a year purely to cover interest payments on the Group's debt. Fosun Tourism is no stranger to the leisure industry as it is also the owner of Club Med. Fosun International was co-founded by billionaire Guo Guangchang and is one of China's biggest conglomerates which has invested billions of dollars over the past decade in tourism, healthcare and fashion companies in Europe and the United States.

FINANCIAL NEWS

Flughafen Zürich posts profit of CHF143.4 million for first half of 2019

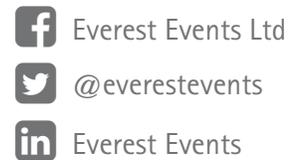
Flughafen Zürich has reported a profit of CHF143.4 million for the first half of 2019. After adjusting the one-off effect for additional provisions for sound insulation measures in 2018, profit rose by CHF13.1 million (+10.1%). Between January and June 2019, 14.9 million passengers used Zurich Airport as their departure, transfer or destination airport, representing an increase of 2.4% over the prior-year period. The number of local passengers rose by 1.1%, while transfer passengers recorded an increase of 5.7%. As a result, the proportion of transfer passengers went up from 28.4% to 29.3% compared with the prior-year period. Markets in all regions performed well. While the European market grew by 0.4%, the number of passengers heading for intercontinental destinations increased by 8.4%. The number of flight movements climbed by 0.9% to 135,871 take-offs and landings in the first half of 2019. The

SAS posts improved operational performance for third quarter



Photo: SAS

SAS has reported that total revenue ended at SEK13,552m, representing an increase of over 3% compared with the same quarter last year. The decline in capacity caused by the pilot strike was compensated by increased passenger revenue. Moreover, SAS posted a continued positive trend in the sale of EuroBonus points and ancillary revenue. Net income for the period was SEK1,162m (2018: SEK1,570m). Earnings before tax and items affecting comparability, came in at SEK1,495m, a decrease of SEK513m year-on-year. The decline was mainly attributable to increased fuel costs, the Swedish krona's continued weakness against the U.S. dollar, as well as the pilot strike at the beginning of the quarter. (US\$1.00 = SEK9.78 at time of publication.)



EFFECTIVE RISK MANAGEMENT IN AIRCRAFT LEASING & AVIATION FINANCE

18 September 2019, Holiday Inn Kensington High Street, London



FINANCIAL NEWS

seat load factor per flight movement fell from 76.7% to 75.9%, while the average number of passengers per flight movement (scheduled and charter) remained stable at 125 passengers. Compared with the prior-year period, the volume of freight handled at Zurich Airport fell by 7.5% to 226,003 tons. Revenue grew by 8.8% compared with the first half of 2018 to CHF588.0 million. In line with the growth in traffic, aviation revenue rose by 2.1% to CHF315.4 million. Non-aviation revenue increased by 17.9% to CHF272.6 million. (US\$1.00 = CHF0.98 at time of publication.)

BBAM and Nomura Babcock & Brown close first aircraft in a US\$1.12 billion combined EETC JOLCO transaction with British Airways

BBAM Limited Partnership (BBAM), alongside its long-term partner Nomura Babcock & Brown Co., (NBB), have closed a Japanese operating lease with call option (JOLCO) transaction with British Airways for an A350-1000. This is the first JOLCO closing in a US\$1.12 billion transaction combining senior secured enhanced equipment trust certificates (EETC) and JOLCO equity in relation to a number of new-generation British Airways-operated aircraft. The transaction will provide financing for six A350-1000 aircraft and two A320neo aircraft. The deal allows the aircraft to be financed by the proceeds from the British Airways 2019-1 EETC certificates and JOLCO equity arranged by NBB and BBAM.

NR Investments closes Chisinau International Airport purchase

On August 28, NR Investments, the Guernsey, Channel Islands investment vehicle, completed its purchase of Komaksavia Airport Invest, the Cyprus-incorporated owner of a 95% shareholding in Moldovan company, Avia Inves, the concession company of Moldova's Chisinau International airport. This marks a significant next step in the airport's development under a public-private concession agreement. The culmination of this transaction follows an extensive engagement with key stakeholders, including Moldova's Minister of Economy & Infrastructure Vadim Brinzan and incoming Prime Minister Mrs Maia Sandu. Central to the investment decision was NRI's view of Moldova as an attractive and predictable investment destination. It is NR Investment's desire to work closely with the Government to grow the airport and ensure its quality in line with the best European gateway benchmarks.

MILITARY AND DEFENCE

Elbe Flugzeugwerke and Airbus Helicopters take on maintenance activities for the Bundeswehr's NH90 fleet

Airbus Helicopters, as prime contractor, will work together with Dresden-based Elbe Flugzeugwerke to maintain a substantial part of the German Armed Forces' (Bundeswehr's) NH90 fleet. Airbus and the Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINBw) signed the corresponding ten-year support contract on August 27. The services to be rendered at a fixed price under this contract comprise scheduled maintenance, 1,200 flight-hour inspections as well as on-demand repairs. Work will begin at Airbus Helicopters in Donauwörth during the first quarter of 2020 and at Elbe Flugzeugwerke in Dresden in early 2021. Dresden as the subcontractor will be the Bundeswehr's second major industrial centre alongside Donauwörth; the addition of this facility will greatly expand the Bundeswehr's capacities for maintaining its helicopters. The German Army currently has 74 NH90 TTH helicopters; all 82 will have been delivered by 2021. The German Navy will start to receive its 18 helicopters in October 2019 – the maintenance of these is also covered by the contract. The German Army's NH90s will be used as tactical transport helicopters (TTH), while the German Navy's NH90s will be used as naval transport helicopters (NTH) – this helicopter type will also be known as the Sea Lion.



Photo: Airbus Helicopters

INFORMATION TECHNOLOGY



toii Digitalization

Photo: © thyssenkrupp Materials Services

In 2017, **thyssenkrupp Materials Services** began to digitally connect its machinery network, using their self-developed IIoT platform toii. Now that the product has successfully proven its value, thyssenkrupp plans to make the potential of digital networking available to other industrial companies in the future. "From the beginning, we built toii not as a project, but as a product,"

says Axel Berger, Head of Digital Transformation at Materials Services. "toii has a modular structure, so it is highly scalable and suitable for use by other companies dealing with the challenges of Industry 4.0" More than 30 thyssenkrupp locations are now working with toii – including companies from Materials Services, Components Technology and Steel Europe. Nearly 300 machines have been integrated into the system, including numerous slitting and cut-to-length lines, slitting lines for steel slabs, packaging lines, band saws, measuring systems and high-bay warehouses. In addition, there are numerous cranes, forklifts, wheel loaders and other vehicles in the network. In total, toii encompasses thousands of "Things" from the individual machine control panels to sensors to the manual measuring devices. The advantages are reflected in concrete figures. For example, a single plant in the production of slit strip and sheet can expect an increase in annual production of up to 10,000 tons. In other areas, production line downtimes have been reduced by up to 10%. Although Materials Services developed toii especially for its own requirements, the platform can be easily integrated into the processes of other companies. "Now that we have brought digital change to our facilities, the next step is to offer toii to our customers and other industrial companies," said Klaus Keysberg, CEO of Materials Services.

FINANCIAL NEWS

Apollo and Athene to acquire PK AirFinance from GECAS

Apollo Global Management (together with its consolidated subsidiaries, “Apollo”), Athene Holding and GE Capital, the financial services arm of GE, have entered into a definitive agreement for Apollo and Athene to purchase PK AirFinance, an aviation lending business, from GE Capital’s Aviation Services (GECAS) unit. In connection with this transaction, Apollo will acquire the PK AirFinance aircraft lending platform and Athene will acquire PK AirFinance’s existing portfolio of loans. PK AirFinance is a leading aircraft lending business that serves airlines, aircraft traders, lessors, investors and financial institutions globally with loans to borrowers in more than 40 countries. Financial details of the transaction were not disclosed, although the US\$3.6 billion of PK AirFinance financing receivables that were held for sale in the second quarter of 2019 are being sold at a premium-to-book value in this transaction. Alec Burger, GE Capital President & CEO, said, “Apollo’s vast lending experience, complementary platforms, and exceptional track record across diversified assets and geographies make it the ideal partner to accelerate PK AirFinance’s growth. This sale is aligned to GE Capital’s overall strategy to become smaller and simpler, and our commitment to reduce our assets by US\$10 billion in 2019 is now more than halfway complete. We continue to focus on shrinking GE Capital’s balance sheet, achieving a debt-to-equity ratio of less than four times by 2020, and supporting GE Industrial growth through our remaining GECAS, Energy Financial Services, and Industrial Finance businesses.” The completion of the acquisition is subject to customary conditions and is expected to close during the fourth quarter of 2019.

Air Canada’s takeover of Transat now in the hands of regulators

With 94.77% of shareholders voting in favour of the sale of Transat to Air Canada at a special meeting, the future of the deal now rests firmly in the hands of regulators. The bid of CA\$720 million equates to a figure of CA\$17.00 per share for Transat, while the company’s share price dropped 3 percent to CA\$16.19 at market close. If successful, Air Canada’s takeover of Transat will see Canada’s largest carrier secure a 60% share of the country’s transatlantic market, while maintaining a firm hold on air travel to and from Montreal. It is anticipated the takeover will be closely scrutinized, not only from the Competition Bureau, but other regulatory bodies, including those in Europe. “Today, we



JetBlue Airways

Photo: AirTeamImages

JetBlue will partner with **Aeronex Cargo** to launch a new cargo offering. Aeronex Cargo, based in Miami, are specialists in delivering turnkey air cargo managed services to low-cost airlines and will focus on providing fast and reliable air cargo services to the registered freight forwarders as well as known shippers. Cargo services will begin with a traditional air-to-air offering in Fort Lauderdale-Hollywood International Airport (FLL). This service will first be expanded with a drop-off point at Miami International Airport (MIA), one of the top-five busiest cargo airports in America, where Aeronex Cargo will pick up and transport goods to Fort Lauderdale. By the end of this year, JetBlue and Aeronex Cargo expect to open additional cargo operations in John F. Kennedy International Airport (JFK), Los Angeles International Airport (LAX) and Boston Logan International Airport (BOS).



Luftfahrtgesellschaft Walter (LGW) operating Dornier 228-201 aircraft

Photo: AirTeamImages

Luftfahrtgesellschaft Walter (LGW) has successfully passed the IATA Operational Safety Audit (IOSA) of the **International Air Transport Association (IATA)**. On this basis, it will apply for membership in the IATA. The IOSA is the worldwide industry standard for operational quality and safety procedures in air traffic. During certification, all operational departments such as organization, flight operations, aircraft maintenance and cabin crew are checked for the course of established procedures. IATA is an international association representing some 290 airlines or 82% of all air traffic. Its members play a major role in shaping industrial policy issues in aviation. This means that both airlines of the Zeitfracht Group are certified with the IOSA. In addition to LGW, WDL Aviation, which has already been successfully audited in the past, is also part of the Berlin family business. Luftfahrtgesellschaft Walter mbH (LGW) is an airline founded in 1980 and active in regional and feeder traffic. It has its headquarters at Dortmund Airport and further locations in Düsseldorf and Stuttgart. The company is a leading provider in the wet lease business. LGW was taken over by the Berlin-based Zeitfracht Group in April 2019.

FINANCIAL NEWS

are very confident that we will get the approval of these different regulatory authorities,” Transat board member Jean-Yves Leblanc said at a news conference. (US\$1.00 = CA\$1.33 at time of publication.)

OTHER NEWS

Utair has selected **GE Aviation** to supply wireless mini Quick Access Recorders (QAR) to assist in meeting its flight data collection requirements from the State Civil Authority of Russia (SCAA). The miniQAR will be supplied from **Avionica**, a joint venture of GE Aviation. Deliveries are currently taking place across Utair’s fleet of 45 Boeing 737 and 767 aircraft, adding to the nearly 16,000 unique aircraft and assets connected to GE Aviation’s digital solutions. Avionica’s wireless QARs require minimal setup and configuration requirements and can be transitioned in the future to new aircraft if required. More than 9,000 of Avionica’s QARs have been delivered around the world, with Supplemental Type Certification (STC) earned on more than 300 models of air transport, business and general aviation aircraft.

Atlas Air Worldwide Holdings has confirmed that its subsidiary, **Atlas Air**, has prevailed in an important arbitration between the Company and the union that represents its pilots, the Airline Professionals Association, Teamsters Local 1224. The August 26, 2019 arbitration decision affirms that the merger provisions of the collective bargaining agreement (CBA) apply in connection with Atlas Air’s acquisition of Southern Air, in April 2016. It further affirms the Company’s long-standing position that the Union has been in violation of the existing CBA by refusing to follow the merger provisions for a new joint collective bargaining agreement (JCBA), and by failing to present an integrated pilot seniority list to the Company. In a separate, but related, proceeding, the Union was also found to be in violation of the Southern Air CBA for refusing to follow the merger provisions for this JCBA on behalf of the Southern Air pilots.

Boeing is offering a new navigation service to enhance efficient flight deck operations for pilots. **Jeppesen Tailored Charts for Avionics** is being introduced initially with **Honeywell Primus Epic INAV** avionics systems for tailored chart customers operating Embraer E2 commercial aircraft. Regional airline Wideroe of Norway is the first operator to use the new tailored navigation service. Jeppesen Tailored Charts for Avionics now provides pilots with operator-specific charting navigation information that is available through



Ribbon cutting ceremony at Sabre’s Boston Innovation Lab

Photo: Sabre

Texas-based **Sabre Corporation**, a leading technology provider to the global travel industry, hosted a ribbon cutting ceremony on August 27, to mark the grand opening of its Boston Innovation Lab. The Innovation Lab will serve as the headquarters for Sabre Labs, Sabre’s global research and development arm that explores novel uses of big data, machine learning, AI and other emerging technologies to shape the future of travel. Sabre strategically selected Boston’s popular Seaport District and plans to draw upon the city’s innovation economy powered by its world-renowned research institutions and community of leading technology companies. “Boston was an obvious choice for the location of our Innovation Hub,” said Sundar Narasimhan, president of Sabre Labs and Product Strategy. “It has a vibrant technology community and access to talent from the nation’s foremost technical universities. In this Lab, our team of software engineers will work in close collaboration with Sabre’s product development teams and customers to accelerate ideas into next-generation solutions that reimagine the business of travel.” Sabre’s technologies produced US\$3.9 billion in revenue in 2018, reflecting longstanding strengths in travel and technology. Sabre operates the world’s largest travel marketplace and processes more than US\$120 billion in travel spend annually. Its range of SaaS solutions, from baggage tracking solutions to intelligent retailing offerings, serve hundreds of airlines, over 42,000 hotel properties, thousands of travel agencies, and many more players throughout the travel industry including car rental companies and cruise lines.



Alaska Airlines

Photo: AirTeamImages

5,200 **Alaska Airlines** employees represented by the International Association of Machinists and Aerospace Workers, have voted to ratify two new five-year agreements. The two agreements cover the nearly 4,500 clerical, office and passenger service employees and more than 700 ramp service and stores agent employees. The two new agreements include wage increases, work security and retirement enhancements among other improvements. Collective bargaining agreements in the airline industry do not expire, they become amendable. Once an agreement becomes amendable, that agreement remains in effect until a new agreement is ratified.

OTHER NEWS

installed, front-panel avionics systems. It allows pilots to view different navigation data points on different display platforms, including Jeppesen FliteDeck Pro tablet-based electronic flight bag (EFB) in addition to the front panel avionics, based on pilot preference. While it is currently only available with Honeywell Primus Epic INAV avionics systems on Embraer E2 aircraft, Jeppesen Tailored Charts for Avionics is planned to include other popular avionics manufacturer systems in the future to serve airlines, government operators and business aviation pilots.

AeroGuard Flight Training Center (FTC) will be serving as the exclusive fixed-wing flight training contractor for the **Phoenix Police Department's** Air Support Unit. A Phoenix institution since 2000, AeroGuard FTC has long been committed to community involvement. For AeroGuard, the newly announced training agreement with the Phoenix Police Department represents an exciting opportunity to have a positive impact on the city that they have called home for almost 20 years. Regarded as one of the premier flight schools in the nation, AeroGuard FTC offers the Phoenix Police Department a dependable way for their pilots to receive high-quality, safe, fixed-wing training. The newly announced agreement is slated to last for five years with AeroGuard. AeroGuard provides training for certifications ranging from Private through Flight Instructor, as well as specific training for currency or upset recovery. Ultimately, the goal is to assist the Phoenix Police Department with making their pilots mission-ready for any operations.

INDUSTRY PEOPLE



Rusty Gardner

• West Star Aviation has appointed **Rusty Gardner** as the new Avionics Install Manager at their East Alton (ALN) location. Gardner has over 19 years of aviation experience and formally served as a project manager in the avionics department at West Star, along with previous positions held at Flying Colours, Jet Aviation, and Duncan. He has also served in the Air Force for seven years as a Guidance and Control Systems Specialist (GACS).

• Bombardier has appointed **Jeff Cole** as Sales Director, Northeast U.S. With his vast experience and insight, Jeff looks to drive sales of Bombardier's class-leading portfo-

Recommended Events



- Engine Leasing Seminar**
September 17, 2019 – Holiday Inn Kensington High Street, London
- Effective Risk Management in Aircraft Leasing & Aviation Finance**
September 18, 2019 – Holiday Inn Kensington High Street, London
- Aircraft Economic Life Summit**
November 18, 2019 – Gibson Hotel, Dublin, Ireland

Click here for more aviation events

lio of business jets. A seasoned professional with more than 25 years of experience in aviation sales, Cole has held a number of key roles in his career, starting in Technical Marketing and Sales Support. He has worked in various positions of increasing responsibility and built a solid track record specializing in new and pre-owned business jet sales. Jeff's territory includes New York City as well as Connecticut, Massachusetts and New Jersey.



Neil Andrews

• Rusada, the global aviation software provider, has appointed **Neil Andrews** as Chief Technology Officer. During his 30+ years in software development Andrews has worked for the likes of Open GI, Experian and most recently SSP, where he held the position of Head of Delivery for their Pure Broker and Sector product lines. At Rusada, Andrews will be responsible for the ongoing development of the company's MRO & Flight Operations software ENVISION, using his extensive experience to drive the continuous improvement of its quality, functionality and accessibility. He will be based at the company's Banbury office in Oxfordshire, U.K. and will report directly to Rusada CEO, **Julian Stourton**.



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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	2009	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	Ross O'Kane	Ross.O'Kane@orix.ie	+353 87 702 8669
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
A320-232	DVB Bank	V2527-A5	2156	2005	Q1/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-200	GA Telesis	CF6-80E1A4	507	2002	Now	Sale	Kevin Ford	aircraft@gatelesis.com	+1-954-676-3111
A330-200	GA Telesis	CF6-80E1A4	510	2002	Now	Sale	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
A330-200	TrueAero Asset Management	CF6-80E1A4/B	882		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	901		Apr 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-200	TrueAero Asset Management	CF6-80E1A4/B	932		May 2020	Lease	Ed Kokoszka	ekokoszka@trueaero.com	+1 772.663.2797
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-5H6	Bristol Associates	CFM56-3C1	26445	1992	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B24E	40317	2012	Q4/2019	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B24	33641	2007	Q2/2020	Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-800	GA Telesis	CFM56-7B	33813	2004	Now	Lease	Priscilla Ang	aircraft@gatelesis.com	+1-954-676-3111
B737-800	GA Telesis	CFM56-7B	33814	2004	Now	Lease	Mauro Francazi	aircraft@gatelesis.com	+1-954-676-3111
B737-800	Willis Lease				soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
B747-400	Bristol Associates		28812	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B747-400	Bristol Associates		30023	2000	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
B757-223 (7x)	Jetran	RB211-535E4B	various	91/92	Now	Lease	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
B777-300ER	DVB Bank	GE90-115b	35161	2008	Q3/2019	Sale / Lease	Jonathan Louch	Jonathan.louch@dvbbank.com	+44 207 256 4449
(2) B787-800					soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-(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
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	1700155		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581
ERJ-170LR	AerFin	CF34-8E	1700124		Now	Sale / Lease	Auvinash Narayen	Auvinash.Narayen@aerfin.com	+44 (0) 7766384581

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THE AIRCRAFT AND ENGINE MARKETPLACE

Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ERJ-145LR	Regional One	AE3007A1	145304	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
ERJ-145LR	Regional One	AE3007A1	145331	2000	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164

Commercial Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(3) AE3007A1P	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 786-623-3936
(1) AE3007A1	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Lease				
CF34-3A	Now - Sale / Lease				
(2) CF34-8C5B1	Now - Sale / Lease	Regional One	Chris Furlan	cfurlan@regionalone.com	-1(305) 759-0670 Ext.164
(1) CF34-3B1	Now - Sale / Lease				
(2) CF34-10E	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
(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	Aug 2019 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B6F	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2B7F	Aug 2019 - Sale / Lease				
(1) CF6-80C2B1F	Jul 2019 - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5B	Q3/2019 - Sale / Lease	Conrail Aviation	Kevin Milligan	kevin@conrail.com	+1 949-933-0797
(1) CFM56-5B4/3	Sep 19 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) CFM56-7B24	Aug 19 - Lease				



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(2) CFM56-7B27	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1-214-988-6670
(1) CFM56-7B26	Now - Lease				
(1) CFM56-7B27	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B4/P	Now 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 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
(1) JT8D-219	Now - Sale / Lease	LCHAerospace	Carlos Miranda	cmiranda@chaerospace.com	+1 954-644-9617
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
GENx Engines	Sale / Lease	Company	Contact	Email	Phone
(2) GENx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) LEAP-1A33	Aug 19 - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) PW123B/E	Now - Sale / Lease				
(1) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Aug 2019 - Sale / Lease				
(3) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 415 516 4837
(1) PW127	Now - Sale/Lease/Exch.				
(1) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(4) PW127M	Aug 19 - 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 Kryns	rkryns@logix.aero	+33.6.2079.1039
(4) PW127M					
(1) PW120 / PW121	Now - Sale / Lease	Royal Aero	Calum MacLeod	calum@royalaero.com	+49 8025 993610

THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(1) Trent 772B	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) V2533-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	Ben Ferguson	Benjamin.ferguson@rolls-royce.com	+44 7807 969 372
(1) V2533-A5	Sep 19 - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) V2527-A5	Aug 2019 - Sale / Lease				
(2) V2500-A5	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner aero.com	+1-703-402-7430

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(1) A320-200 Landing Gear	Now - Sale/Lease/Exch.	TrueAero, LLC	Matt Parker	mparker@trueaero.com	+1 469-607-6110
A340-300/A330 Landing Gear	Now - Sale/Lease/Exch.				
A340-600 Landing Gear	Now - Sale/Lease/Exch.				
B777-200 Landing Gear	Now - Sale/Lease/Exch.				
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	Q4/2019 - 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@azures.com	1-954-249-7935
GTCP36-300A, GTCP85-98DHF APU	Now - Sale/Lease/Exch.				
A320 Nose Landing Gear	Now - Sale/Lease/Exch.				
CFM56-3 LPT MODULE, REPAIRED	Now - Sale/Lease/Exch.				
CFM56-3 ENGINE STAND	Now - Lease				
(1) GTCP36-150RJ, (2) GTCP36-100M,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 (786)-623-3936
(1) RE220RJ, (1) PW126 RGB, (1) PW901A					
(1) APS1000-C12, (1) APS1000-C3					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) PW901A APU	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)141 389 3014
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					
(2) GTCP131-9A, (1) GTCP131-9B, (1) GTCP131-9B (MAX),		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (1) GTCP331-350, (2) GTCP331-500, (1) PW901A					
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, APS5000			Rich Lewsley	rlewsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
(1) APU GTCP331-500, (1) APU GTCP131-9A	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (415) 408 4742
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500 / 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	jevy@Werner aero.com	+1 201-674-9999
737-800 Winglets	Now - Sale / Lease				
737-700 & 737-800 Landing Gear	Now - Sale / Lease				
(3) APS 2300	Now - Sale/Lease/Exch.		Mike Cazaz	mike@werner aero.com	+1 201-661-6804
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368