

Weekly Aviation Headline News

WORLD NEWS

Global Eagle brings inflight connectivity to Turkish

Global Eagle Entertainment Inc. and Profen Group have announced a new partnership to bring the industry's leading Inflight Connectivity (IFC) capabilities to commercial passenger airlines in Turkey. The agreement sees Global Eagle integrate its award-winning Airconnect satellite IFC solution; Airtime Portal; content; and global satellite network with Profen's substantial satellite; ground; regulatory; billing; and security infrastructure.

Tokyo to join Virgin Australia's cargo network

Virgin Australia will add Japan to its international cargo network in March with the launch of daily services between Brisbane and Tokyo-Haneda. Commencing on 29 March 2020, cargo space on the new route will be marketed by Virgin Atlantic Cargo under its longstanding international long-haul sales and marketing agreement with Virgin Australia. The daily Airbus A330 flight will offer between 15-20 tonnes of cargo capacity. The new route, Virgin Australia's first-ever service to Tokyo, is expected to attract strong demand from both passengers and cargo customers.

Aer Lingus to launch two new routes from Shannon

Aer Lingus has unveiled two new summer routes direct from Shannon for 2020, commencing flights to Paris, France from March and to Barcelona, Spain from May next year. This route expansion underlines Aer Lingus' commitment to Shannon. Aer Lingus is the largest airline operating at Shannon Airport in Summer 2020 in terms of frequency of services offered. The new routes will see the overall capacity from Shannon for summer increase by 19%.



Qatar Airways courts IndiGo

Targeting the fast-growing Indian feeder market

Indian low-cost operator IndiGo, which recently made a jaw dropping order for another 300 A320 Neo's has signed a new codeshare agreement with Qatar Airways. This agreement will enable the airline to place its code on IndiGo flights between Doha and Delhi, Mumbai and Hyderabad and is the first step in strengthening cooperation between the two carriers.

Qatar Airways Group Chief Executive, His Excellency Mr. Akbar Al Baker, said: "We are extremely proud to secure this strategic part-

nership with IndiGo, the largest airline in one of the world's fastest growing aviation markets. We believe this agreement will be just the first step in strengthening our relationship and we very much look

"This is a momentous occasion for us, as we sign this codeshare agreement with one of the finest airlines in the world."

IndiGo CEO Ronojoy Dutta

forward to working together to harness our complementary strengths and resources to enhance the travel experience for our passengers around the world."

IndiGo Chief Executive Officer, Mr. Ronojoy Dutta, said: "This is a momentous occasion for us, as we sign this codeshare agreement with one of the finest airlines in the world. This strategic alliance will not only

strengthen our international operations, but also boost economic growth in India, by bringing in more traffic and heralding opportunities for trade and tourism

through seamless mobility. We are confident of a successful partnership as we extend our signature on-time, courteous and hassle-free

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service experience to the passengers of Qatar Airways. These are exciting times for the aviation industry, and it is our commitment to remain focused in building one of the best air transportation systems in the world.”

The Indian operator says the new agreement is in line with its international expansion plans, with sales starting immediately. This is the

second codeshare agreement for IndiGo as part of its growth strategy for international markets.

The first codeshare flights to operate from 18 December 2019.

AIRCRAFT & ENGINE NEWS

NAC delivers one ATR 72-500 to Loganair on lease

Nordic Aviation Capital (NAC) has delivered one ATR 72-500, MSN 570, to Loganair on lease. Prior to delivery, the aircraft has been converted to freighter configuration by NAC, providing Loganair with a 75m3 capacity / 7.5t payload aircraft to operate on behalf of one of its major customers. This represents the first ATR aircraft to join Loganair’s fleet.

Qantas finds structural pickle fork cracks in three 737 NG jets – now grounded for repairs

Qantas has discovered structural cracks in the pickle forks of three of its Boeing 737NGs after a problem was found with the first jet, which had registered just under 27,000 flight cycles, during earlier-than-scheduled heavy maintenance. All three out of 33 jets which were subsequently inspected have now been grounded until essential repairs can be carried out. The likely cost is estimated to be around US\$275,000 per aircraft and the jets should be back in service by the end of the year. Australia’s flag-carrying airline has advised travelers that despite the three jets being out of commission, this will not affect normal services. Boeing alerted the FAA to the potential

Cebu Pacific finalizes order for 16 A330neos



Cebu Pacific signs order with Airbus for 16 A330neo aircraft

Photo: Airbus

Cebu Pacific (CEB), based in the Philippines, has signed a firm order with Airbus for 16 long-range A330neo aircraft. The order firms up the wide-body portion of a previously announced Memorandum of Understanding (MoU), which also includes commitments for 10 A321XLRs and five A320neo single-aisle aircraft. The A330neo ordered by Cebu Pacific is a higher-capacity version of the A330-900, with up to 460 seats in a single-class configuration. Cebu Pacific plans to operate the aircraft on trunk routes within the Philippines and the rest of Asia, as well as on longer-range services to Australia and the Middle East.

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problem after cracks in pickle forks were discovered in a number of 737NG passenger jets which were being converted to freighters and which had completed well in excess of 30,000 flight cycles. As a consequence, the FAA issued a directive advising that all 737NG jets with more than 30,000 flight cycles should be inspected immediately, while those with between 22,600 and 30,000 flight cycles should be inspected over the coming months or as soon as they had reached the 30,000-flight mark. Structural cracks have been found in 737NGs owned by Southwest Airlines Co, Brazil's Gol Linhas Aereas Inteligentes SA, Korean Air Lines Co and Indonesia's Sriwijaya Air. Boeing have been keen to point out that so far, only 5% of the over 1,000 737NGs in operation have been found to have structural cracks in them.

UPS and CVS make first residential drone deliveries of prescription medicines

UPS Flight Forward (UPSFF) and CVS Health Corporation subsidiary CVS Pharmacy have successfully completed the first revenue-generating drone delivery of a medical prescription from a CVS pharmacy directly to a consumer's home. This was followed by another delivery of a medical prescription to a second customer in a nearby retirement community. Both flights occurred on Friday, Nov. 1, 2019, using the M2 drone system by UPS partner and drone systems developer Matternet. The deliveries mark another milestone in a recently announced collaboration between UPS and CVS to develop a variety of drone delivery use cases, including business-to-consumer operating models. The companies plan ongoing drone delivery program development in the coming months in order to bring to market the speed and convenience advantages of UAVs. The recent prescription delivery flights occurred with FAA approval to conduct a residential drone delivery and according to FAA regulations. The flights launched from a CVS store in Cary, NC and flew to CVS customers' homes. The drones flew autonomously but were monitored by a remote operator who could intervene if necessary. The drone hovered about 20 feet over the properties and slowly lowered the packages by a cable and a winch to the ground. One of the packages was delivered to a CVS customer whose limited mobility makes it difficult to travel to a store to pick up a prescription.



First residential drone deliveries of prescription medicines
Photo: UPS

Colorful Guizhou Airlines concludes US\$1 billion agreement with CFM



Colorful Guizhou Airlines finalizes RPFH-agreement for LEAP-1A engines with CFM Photo: AirTeamImages

Colorful Guizhou Airlines has finalized a 12-year Rate-Per-Flight-Hour (RPFH) agreement for LEAP-1A engines that will power the airline's future fleet of up to 35 Airbus A320neo aircraft, along with five spare engines. The agreement is valued at approximately US\$1.0 billion at list price. The contract was signed in conjunction with French President Emmanuel Macron's state visit to China. RPFH agreements are part of CFM's portfolio of flexible aftermarket support offerings. Under the terms of the agreement, CFM Services guarantees maintenance costs for the airlines LEAP-1A engines on a dollar-per-engine-flight-hour basis. Established in June 2015, Colorful Guizhou Airlines is one of the fastest-growing airlines among the newly established airlines. Since its inception on December 31, 2015, it has developed routes covering 31 cities in the provinces, North China, East China, South China, Central China and West China, and initially built a "Guizhou-based, nationwide-oriented" route network.



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Rolls-Royce to expand global engine overhaul network



Rolls-Royce plans to expand its global engine overhaul network to support further fleet growth

Photo: Rolls-Royce

Rolls-Royce has announced plans to expand its global network of engine overhaul services to support growth in its fleet of large aero engines. With its fleet of in-service engines forecast to grow from more than 4,000 today to approximately 6,500 in the mid-term – and even further beyond that – the company expects demand for overhaul services to increase over the coming years. This planned expansion comes as the long-term focus of Rolls-Royce’s business moves towards managing the aftermarket potential of its fleet of wide-body aircraft engines, following successful expansion over many years. This further expansion of its network of engine overhaul facilities also underpins the company’s commitment to reducing the impact on customers of in-service issues with the Trent 1000. In Germany, part of the Rolls-Royce Deutschland site in Dahlewitz will transition into an overhaul

services hub with the capability of handling wide-body engine overhauls. The Rolls-Royce Canada site in Montreal, which currently services business jet engines, will also be repurposed to become a wide-body engine overhaul facility. These moves come in addition to ongoing investment in the U.K; the Derby site will become an engine overhaul Centre of Excellence, capable of overhauling the new engine types in Rolls-Royce’s fleet. The team in Derby is developing new overhaul techniques and will provide training to Rolls-Royce’s wider network. The company will also continue to invest in overhaul facilities in Bristol, England and Inchinnan, Scotland to enhance its capacity to undertake overhauls of Trent 700 engines. Expanding capacity in its network of service facilities follows previous announcements on increasing provision for engine overhaul through Authorised Maintenance Centres at Delta Tech Ops, Sanad Aerotech and Standard Aero.

MRO & PRODUCTION NEWS

MTU Aero Engines develops and operates unique engine assembly system

With the geared turbofan (GTF), Pratt & Whitney and MTU Aero Engines are building the most eco-efficient propulsion system currently available in the marketplace. MTU not only contributes key turbine and compressor technologies to this highly advanced family of engines, the company is also responsible for final assembly of one third of the PW1100G-JM geared turbofans that power the Airbus A320neo. “To gear up for these engines, MTU has developed an innovative floor-based line assembly system and built it up and put it into operation at the company’s headquarters in Munich,” explains MTU Chief Operating Officer Lars Wagner. “The system, which is unparalleled worldwide, meets the highest technological standards and also satisfies ergonomic needs.” The core of MTU’s GTF production assembly line is a highly innovative, remotely controlled floor-based transportation system that – thanks to its modular design – can be flexibly adapted to accommodate the individual build stages of the engine. “The system was integrated into an existing building,” says Ulrich Peters, Senior Vice President, Production. The system provides for PW1100G-JM engine assembly to be performed in several work steps and allows several engines in various stages of completion to be assembled concurrently. Peters adds: “Once the final expansion stage has been reached, 80 employees will work at the line and assemble one engine per day.” For MTU, this geared turbofan is the first commercial engine ever assembled by the company in its 85-year history. The line has been up and running since late 2016, and around 300 engines have meanwhile left the MTU shop. On average, 20 engines are completed every month.



MTU’s engine assembly line

Photo: MTU

MRO & PRODUCTION NEWS

GA Telesis to open new Taiwan-based sales and customer care center

GA Telesis (GAT) is opening a new sales and customer care center based in Taipei, Taiwan. The newly established “GA Telesis Taiwan” office will provide localized aircraft and engine parts, services, and support to GAT’s growing customer base in the Asia-Pacific region. Lynda Cheng, Vice President of Asia Pacific Sales, will be responsible for developing business opportunities and growing sales, repairs, leasing, and MRO operations for commercial aircraft operators in the region. Her ability to navigate the unique multi-cultural aviation landscape throughout the Asia Pacific region has resulted in rapid sales growth for GA Telesis.

StandardAero achieves FAA certification of San Antonio RB211-535 test cell

StandardAero has received FAA approval for acceptance testing of the Rolls-Royce RB211-535 turbofan engine at its maintenance, repair and overhaul (MRO) facility in San Antonio, Texas. This achievement, which followed a test cell correlation effort undertaken in partnership with the engine manufacturer, marks StandardAero’s attainment of full capability on the RB211-535, in support of the life-of-type maintenance services partnership signed with Rolls-Royce in 2018. Under the partnership agreement, responsibility for RB211-535 in-service support is being transferred from Rolls-Royce’s Derby, U.K. location to StandardAero’s 810,000 ft² facility in San Antonio. StandardAero’s RB211 team had already received FAA and EASA certification for engine disassembly, cleaning, inspection, repair, assembly and test, and correlation of the San Antonio facility’s RB211 test cells now enables engine performance testing to be completed on-site, prior to engine redelivery to customers.

AddQual now certified by NADCAP for 3-D structured light scanning

AddQual are now certified by NADCAP for 3-D Structured Light scanning to compliment that AS9100 certification. AddQual provides development and qualification services for new and repair markets and is able to assist its customers with high-resolution metrology, with the capability to create high-definition digital twins. AddQual is creating virtual twins of the physical component, which is then being simulated to optimize the process and improve the product quality. Typical examples include the collection of characteristics from the component such as burs, scuffs and deviations caused by product use, aiding their customers with initial sentencing and confirming the work scope.

GKN Aerospace named key supplier for all-new Gulfstream G700 business jet



The Gulfstream G700

Photo: GKN Aerospace

GKN Aerospace has been selected as a key supplier on the new Gulfstream G700 business jet that was unveiled at NBAA on October 21. GKN Aerospace is using its leading capability in design and manufacture of business jet empennages and thermoplastic components on the advanced aircraft. The rudder and elevators that are part of the empennage, as well as the floorboards, feature the latest thermoplastic technology. GKN Aerospace also produces the bonded fuselage panels for the new fuselage. A team of highly qualified GKN Aerospace engineers has collaborated with the Gulfstream team to take an active role in the design process. Production takes place in facilities in Hoogeveen and Papendrecht in the Netherlands.

CAS Components division awarded five-year contract



Photo: CAS signs five-year contract with major cargo carrier

Certified Aviation Services (CAS) Components, a leading provider of component overhaul, has signed a five-year agreement with a major cargo carrier. Out of a competitive pool of approved vendors competing for the service contract, CAS was chosen by the air carrier as its preferred component repair shop. This extensive contract requires full coverage on repair and overhaul of high-flow pneumatics, air cycle machines and mechanical accessories. The agreement was specifically assembled to provide higher reliability and reduced turnaround time. In addition, CAS has internally

designated engineering representative (DER) capabilities and a robust partnership with a parts manufacturer approval (PMA) house that will be utilized on this contract.

Liebherr-Aerospace to provide pneumatic valves for new Rolls-Royce business jet engine

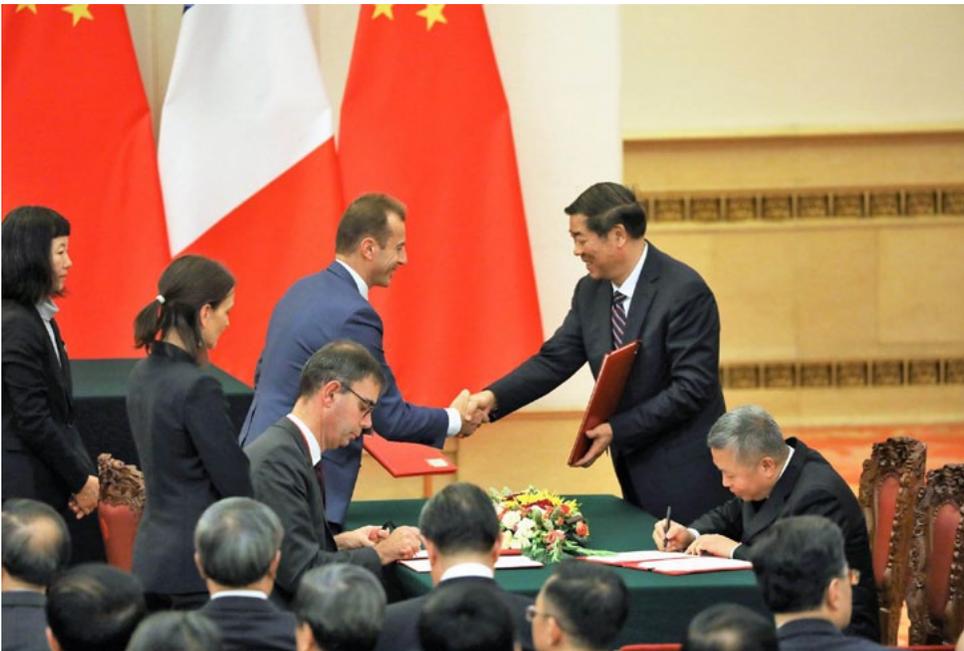
Liebherr-Aerospace has been selected to supply the pneumatic component package for Rolls-Royce’s next-generation business jet engine Pearl 700: Both the pneumatic valves and the actuation devices that control pneumatic power around the engine have been designed, are manufactured and serviced by Liebherr-Aerospace Toulouse SAS, Toulouse (France). Liebherr-Aerospace Toulouse SAS provides Rolls-Royce with lightweight, high-reliability valves and actuation devices that match the requirements of the Pearl 700 engine program, the most powerful in the Rolls-Royce business jet propulsion portfolio. The Pearl 700 is the latest member of Rolls-Royce’s Pearl® engine family and the exclusive power plant for the new Gulfstream G700. The new contract is another important step in the relationship between Rolls-Royce and Liebherr-Aerospace: In 2015, both companies established a 50:50 joint venture called Aerospace Transmission Technologies GmbH. It is based in Friedrichshafen (Germany) and develops manufacturing capability and capacity for the power gearbox for Rolls-Royce’s new UltraFan™ engine. In addition, the engine manufacturer has selected Liebherr-Aerospace to supply a pneumatic valve for the Trent 7000 engine.



Pearl 700 engine assembly

Photo: Rolls-Royce

Airbus and China reinforce long-standing partnership



MoU signing between Airbus and China

Photo: Airbus

Airbus and China have signed a Memorandum of Understanding on the further development of industrial cooperation. According to the MoU, both sides have agreed to take practical and effective measures for new initiatives regarding both Airbus single-aisle and wide-body aircraft. As part of Airbus’ objective to reach a global A320 Family production rate of 63 aircraft per month in 2021, the Airbus Tianjin A320 Family Final Assembly Line (FAL Asia) remains on track to ramp up its production to six aircraft per month by the end of 2019, which is a 50% increase compared to its original design. A350 XWB capabilities will be extended into the Airbus Tianjin wide-body Completion and Delivery Centre (C&DC) from the second half of 2020. The C&DC is scheduled to deliver its first A350 aircraft by 2021 from Tianjin. The potential of China’s aviation market is huge: while China’s domestic demand is set to become the world’s largest market,

international traffic to and from China has nearly doubled over the last 10 years. According to the Airbus Global Market Forecast, China is expected to require some 7,560 new aircraft over the next 20 years.

FINANCIAL NEWS

Astronics Corporation reports third-quarter 2019 financial results

Astronics Corporation, a supplier of advanced technologies and products to the global aerospace, defense and other mission-critical industries, has reported financial results for the three months ended September 28, 2019. Financial results include the divestiture of the Test Systems' semiconductor business on February 13, 2019. Consolidated sales were down US\$35.7 million including sales of the semiconductor business which was divested in the first quarter of 2019. Excluding the divestiture, adjusted consolidated sales were down 2.4%, or US\$4.3 million. Consolidated operating income decreased to US\$5.1 million compared with US\$18.3 million in the prior-year period. Adjusted consolidated income from operations excluding the sales and direct expenses attributable to the divested semiconductor test business was US\$3.2 million, or 1.8% of adjusted consolidated sales, compared with US\$8.0 million, or 4.5% of adjusted consolidated sales, in the prior-year period. Impacts to operating income and margin included tariff expenses of US\$3.2 million and a US\$1.7 million increase to a legal reserve for a long-term patent dispute. Also impacting operating income were operating losses of US\$9.2 million related to the three challenged Aerospace businesses, which included a program charge of US\$2.2 million. Operating losses related to the three challenged Aerospace businesses were US\$11.2 million in the third quarter of 2018 and US\$7.7 million in the preceding second quarter of 2019. The third quarter had a US\$1.3 million loss on the sale of a business related to the sale of intellectual property and certain assets associated with the Airfield Lighting product line which was divested in July. The effective tax rate for the quarter was 31.3%, compared with a tax benefit recorded in the third quarter of 2018. The 2019 third-quarter tax rate was unfavorably impacted by the tax associated with the gain on the sale of the semiconductor business. Net income was US\$1.2 million, compared with US\$17.0 million in the prior year.

Atlas Air Worldwide reports third-quarter results



Atlas Air

Photo: AirTeamImages

Atlas Air Worldwide Holdings, has posted third-quarter 2019 income from continuing operations, net of taxes, of US\$60.0 million, compared with reported income of US\$71.1 million in the third quarter of 2018. Reported results in the third quarter of 2019 included an unrealized gain on outstanding warrants of US\$83.2 million, partially offset by a special charge, net, of US\$18.9 million, compared with an unrealized gain on outstanding warrants of US\$46.1 million in the year-ago period. On an adjusted basis, EBITDA totaled US\$95.6 million in the third quarter this year, compared with US\$123.9 million in the third quarter of 2018. Adjusted income from continuing operations, net of taxes, in the third quarter of 2019 totaled US\$9.5 million, compared with US\$43.8 million in the year-ago quarter. "Our third-quarter performance was affected by the uncertain global macroenvironment, driven by ongoing tariff and trade tensions," said Chairman and Chief Executive Officer William J. Flynn. "In addition to lower yields and volumes than we anticipated, labor-related service disruptions had a significant impact on our performance during the third quarter. "Looking to the full year, we expect revenue of about US\$2.75 billion, adjusted EBITDA of approximately US\$500 million, and adjusted net income of approximately 60-65% of our 2018 adjusted net income.

Emirates Group announces half-year performance for 2019-20, with AED 1.2 billion profit

The Emirates Group has announced its half-year results for its 2019-20 financial year. Group revenue was AED 53.3 billion (US\$14.5 billion) for the first six months of 2019-20, down 2% from AED 54.4 billion (US\$14.8 billion) during the same period last year. This slight revenue decline was mainly due to planned capacity reductions during the 45-day Southern Runway closure at Dubai

International airport (DXB) and unfavorable currency movements in Europe, Australia, South Africa, India, and Pakistan. Profitability was up 8% compared to the same period last year, with the Group reporting a 2019-20 half-year net profit of AED 1.2 billion (US\$320 million). The profit improvement was primarily due to the decline in fuel prices of 9% compared to the same period last year, however the gain from lower fuel costs were partially offset by negative currency movements. The Group's cash position on September

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30, 2019 stood at AED 23.0 billion (US\$6.3 billion), compared to AED 22.2 billion (US\$6.0 billion) as of March 31, 2019. Overall capacity during the first six months of the year declined by 7%, while capacity decreased by 5%. Passenger traffic was down by 2% with average Passenger Load Factor rising to 81.1%, compared with last year's 78.8%.

Lufthansa Group achieves adjusted EBIT of €1.3 billion in the third-quarter 2019

Lufthansa Group has achieved an Adjusted EBIT of €1.3 billion for the third quarter of 2019, only slightly below the EUR €1.4 billion of the prior-year period. Against the backdrop of higher fuel costs, which were €171 million above their 2018 level in the third quarter alone, the Group delivered a sound business performance for the period. Total revenues for the Lufthansa Group for the third quarter of 2019 increased by 2% to €10.2 billion (prior year: €10 billion). Third-quarter Adjusted EBIT amounted to €1.3 billion (prior year: €1.4 billion), an 8% decline on the prior year. The Adjusted EBIT margin stood at 12.7% (prior year: 14.1%). Fuel costs for the period were €171 million above its prior-year level, primarily due to currency movements. Cost reductions in other areas only partly offset the increase. The Eurowings turnaround is showing its first successes and continues to be consistently pursued. Third-quarter Adjusted EBIT increased by 39% to 169 million (prior year: €122 million). Currency-adjusted unit revenues were up 3.5% for the period, as a result of a substantial reduction in long-haul capacity and operational improvements. Unit revenues in short haul declined at a low single-digit percentage rate. Eurowings should be back to profitability by 2021 and should achieve a margin of 7% in the longer term. (€1.00 = US\$1.10 at time of publication.)

SIA reports 5.1% higher net profit in first half 2019/2020



Singapore Airlines

Photo: Airbus

The SIA Group has achieved a net profit of SG\$206 million in the first half of the financial year, SG\$10 million (+5.1%) higher than last year. Revenue rose SG\$418 million (+5.3%), primarily from strong growth in passenger-flown revenue, partially offset by a reduction in cargo-flown revenue, while higher expenditure (+SG\$431 million or 5.8%) reflected enlarged operations. Accordingly, operating profit for the Group was SG\$413 million, down SG\$13 million or 3.1% compared to the same period last year. The Group recorded a reduction in share of losses from associated companies (+SG\$36 million), mostly from Virgin Australia, and a higher share of profits from joint venture companies (+SG\$19 million). These were offset by increased net finance charges (-SG\$54 million) due to the recognition of interest expense arising from lease liabilities following the adoption of IFRS 16 Leases and additional financing for fleet renewal and expansion. (US\$1.00 = SG\$1.36 at time of publication.)

Boeing to invest over US\$1 billion in new safety initiative

While yet to be officially announced, Boeing would appear to be about to launch a major PR exercise in the form of a billion-dollar worldwide safety initiative. The revelation comes hot on the heels of accusations made by U.S.

lawmakers during recent hearings relating to the two fatal 737 MAX crashes that Boeing CEO Dennis Muilenburg had put profit before safety standards. Muilenburg would not provide much detail but confirmed that Boeing would help "build a talent pipeline" of pilots and invest heavily in the pilot-machine interface or flight deck for the next generation. For the time



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being, focus at Boeing is more on getting the beleaguered 737 MAX back in the air and the global initiative will likely be rolled out next year once changes to the MAX software and pilot training have been approved by regulators. This approval is anticipated to be by the end of 2019 in the U.S. but not until the first quarter of 2020 in Europe. According to someone who is familiar with Boeing's new initiative, "It will involve significant funds to raise standards around the world and requires Boeing putting its own money in." According to Reuters news agency, it is understood that part of Boeing's investment will include improving aviation infrastructure, such as air traffic and flight simulation systems, while it is also considering whether to develop new training materials or methods for various career stages, and to fund training centers or recruitment efforts. There is also potential for Boeing to also create a data-sharing network on aircraft design with global regulators to improve outside knowledge of its aircraft technology and operations. Recently, the head of the EASA told Reuters that it would demand more data when deciding whether or not to certify future jets.

IAG to acquire Air Europa for €1 billion

International Consolidated Airlines Group (IAG) and Globalia have signed a definitive transaction agreement under which IAG's wholly owned subsidiary, IB OPCO Holding S.L. (Iberia), has agreed to acquire the entire issued share capital of Air Europa Líneas Aéreas, S.A.U (Air Europa) for €1 billion to be satisfied in cash at Completion and subject to a closing accounts adjustment. Air Europa, based on Mallorca, Spain, is one of the leading private airlines in Spain, operating scheduled domestic and international flights to 69 destinations, including European and long-haul routes to Latin America, the United States of America, the Caribbean and North Africa. In 2018, Air Europa generated revenue of €2.1 billion and an operating profit of €100 million. It carried 11.8 million passengers in 2018 and ended the year with a fleet of 66 aircraft. The Air Europa brand will initially be retained and the company will remain as a standalone profit centre within Iberia run by Iberia CEO Luis Gallego. The managements of IAG and Iberia anticipate opportunities to unlock value through the acquisition across three key areas: integrating Air Europa into the existing Iberia hub structure at Madrid, creating commercial links between Air Europa and other IAG operating companies, in addition to inclusion into IAG's joint businesses and integrating Air Europa onto the IAG platform of common services. (€1.00 = US\$1.10 at time of publication.

The H-Aero is a small, helium-filled hybrid aerial vehicle. From October 28 to 31, passengers at **Frankfurt Airport** were able to see it floating almost silently through Halls D and E in Terminal 2. **Fraport AG** joined forces with the start-up **Hybrid-Airplane Technologies GmbH** to carry out test flights assessing whether the aerial vehicle could be used to



Prototype of a camera zeppelin at Frankfurt Airport

Photo: Fraport

perform status checks in the terminals. The H-Aero has approval to fly over people and combines the advantages of a balloon, airplane and helicopter in a single system; for instance, the hybrid aerial vehicle can perform a vertical take-off like a helicopter. It features a helium-filled, lens-shaped balloon that keeps it in the air as well as wings that can rotate 270° to steer it in all directions. The idea behind the field test is to make life easier for employees performing status checks in the terminals. Instead of having to inspect the large terminal halls on foot, employees would be able to check the sites from the comfort of their desks with the help of camera images and use this to report any necessary clean-ups or repairs. The easier identification of incidents will contribute to improved traffic safety in the terminals. During the test, the H-Aero flew a pre-defined route through the check-in halls and used a thermal imaging camera to transmit images of the terminal. Going forward, with the help of AI technology, the H-Aero will be able to make its rounds and report any issues autonomously.



Photo: Heathrow Airport

As **Heathrow** prepares to select its final four Logistics Hubs, a cutting-edge centralized tracking system for expansion has been revealed. The technology will serve as a nerve-centre, enabling a network of separate offsite construction centers to work in unison throughout the project. The tech-

nology will track and monitor millions of component parts of the expanded airport, providing updates to the construction sites and keeping the incredibly complex expansion project moving. The concept was successfully pitched by **Siemens Digital Logistics** as part of the **Heathrow Innovation Partners** process, which threw open its supply chain inviting any organization to share ideas on how expansion could be delivered more efficiently and affordably. Last year, over 150 organizations initially expressed interest in partnering with Heathrow, and now Siemens Digital Logistics being named as one of the businesses that will see its idea become integral to the airport's offsite strategy, potentially transforming the way that major infrastructure is delivered in the U.K. Heathrow's Innovation Partner search is just one of the ways that the airport is looking to spread the benefits of expansion to across the U.K., whilst mitigating the project's impact on local communities. Since 2017, the airport has been looking for communities keen to become Logistics Hubs, construction centers that pre-assemble parts of the expanded airport offsite before transporting them to west London in consolidated loads just as they are needed. The final four sites, which are set to be announced next year, will use this centralized tracking technology for the efficient management of the project.

PASSENGER STATISTICS - OCTOBER

- **Norwegian's** traffic figures for October showed an increased unit revenue for the seventh consecutive month and was up 6% compared to the same month in the previous year. A total of 3,118,722 passengers have chosen to fly with Norwegian in October. The total traffic was down 3% and the capacity growth was down 5% compared to the previous year, in line with the strategy. The load factor was 87.1%, up 2.1 points.
- In October, **Finnair** carried 1,266,000 passengers, 10.9% more than in the correspond-

ing period of 2018. The overall capacity increased in October by 10.1%. Finnair's traffic increased by 14.1% and the passenger load factor increased year-on-year by 2.8 points to 82.3%.

- **Delta Air Lines** has reported op-

erating performance for October 2019. The company carried 17.5 million customers across its broad global network. System traffic for the month was up 5.2%, while capacity increased 5.1% compared to the previous year. The load factor for October was 85.6%, up 0.1 points.

OTHER NEWS

Beginning its flights to China back in 1999 with Beijing as the destination, **Turkish Airlines** is connecting Xi'an to its flight network as its fourth destination in mainland China after Beijing, Shanghai and Guangzhou on the 20 year of its presence in the country. After the meeting between Turkish Airlines Chairman of the Board and the Executive Committee, M. İlker Aycı and Secretary of the Shaanxi Province Party Committee, Hu Heping on November 5, 2019, an agreement was made for Turkish Airlines to start its flights to the Xi'an destination. Xi'an flights will initially be three frequencies a week and the flights are being planned to start at the end of 2019. They are set to increase gradually as the 2020 summer schedule begins. With the launch of Xi'an flights, Turkish Airlines' reciprocal flights to China will increase to 24 flights a week.

AJW Group, the independent specialist in the global management of aircraft spares, has announced the formation of a new joint venture to help drive its growth in China. The joint venture will be called **AJW Greavia Limited** and has been established with Hong Kong-based, Greavia Limited to enable AJW Group to better serve the booming Chinese aviation market. AJW Greavia Limited will be led by the retiring Chairman of **AJW London**, Randeep Grewal, who will drive its focus on strategic commercial aviation opportunities with selected Chinese partners. Greavia Limited is part of Greran Group, which complements AJW's aviation business interests in aircraft and component maintenance, engineering, maintenance programs, ground operations, planning and aircraft leasing.



Pakistan International Airlines

Photo: AirTeamImages

ship, the agreement with Sabre supports the carrier's business strategy by driving its expansion and profitability, tapping into codeshare and partnership sales, and expanding ancillary sales. Moreover, this announcement will also allow Pakistan International Airlines to further strengthen its presence in new markets, such as the United States, as well as locally and across the globe. With over nine million of Pakistan's workforce living abroad, there is a marked demand for travel into the country coming from Europe and the Middle East. Now that Pakistan International Airlines is joining Sabre, content from the carrier will be accessible to over 425,000 Sabre-connected agents around the world.

Sabre Corporation has signed a new content distribution agreement with **Pakistan International Airlines**. As the country's national flag carrier, the agreement will provide Sabre's extensive network of travel agents with both domestic and international content via its rich global travel marketplace. Joining Sabre's Global Distribution System will have a positive impact on both Pakistan International Airlines and the country's travel economy. In addition to reinforcing a long-term partner-

The founders of Iceland's newest airline have announced that **Play** will be the carrier's name and they have also revealed the airline's striking red livery. Play is due to commence commercial cargo-only operations in December and will initially lease Airbus A320 medium-range jets. However, the company has



Photo: Play

yet to obtain an air operator's license, though it is understood the final stages have been reached. Initially, Play will fly to six European destinations this winter using two A320s, while six of the aircraft are expected to be in service by the summer. Play intends to add four destinations in North America to the schedule by the spring. By 2023 Play hopes to have ten operational aircraft. **Avianta Capital**, owned by Aislinn Whittlely-Ryan, the daughter of Michael Kell Ryan, one of the founders of **Ryanair**, will take a 75% stake in the new carrier in return for providing US\$40 million in capital to ensure continued operations for a minimum of three years. The remaining 25% stake will be held by Neo, owned by PLAY founders Arnar Már Magnússon, former director of airline operations at **WOW Air**, Sveinn Ingi Steinþórsson, former director of the economic division at WOW Air, Bogi Guðmundsson, lawyer at **Atlantik Legal Services** and board director of **BusTravel**, and Þóroddur Ari Þóroddsson, who previously worked in London as a consultant in the aircraft trade.

INDUSTRY PEOPLE



Hervé Bouaziz

• **Hervé Bouaziz** has been named President of Europrop International GmbH (EPI), effective November 4, 2019. As the head of this European consortium formed by ITP, MTU Aero Engines, Rolls-Royce and Safran Aircraft Engines, Hervé Bouaziz will assume responsibility for the TP400, the turboprop engine powering the Airbus A400M military transport airplane.

• JetHQ has expanded its team of aviation experts to meet a growing global marketplace demand. The aircraft transaction and brokerage company has announced the addition of two sales managers and a technical analyst to its experienced roster. Sales Manager **Jamie Roberts** and Technical Analyst **Steven Pinkerton** have joined the company's U.S. headquarters in Kansas City, Mo., while Sales Manager **Aman Kapur** is based at JetHQ's international headquarters in Dubai, UAE. The three will work with Vice President of Marketing & Sales Management **Jill Plumb** to manage markets and sales efforts and promote JetHQ's premium aircraft inventory globally.

• The Board of Directors of Safran has selected **Olivier Andries** as successor to **Philippe Petitcolin** in the position of Chief Executive Officer with effect on January 1, 2021, after a transition period of one year starting on January 1, 2020. As of that date (1/1/2020), Andries will serve under Petitcolin's authority. Andries has demonstrated all the qualities required to lead the Group. He has acquired solid operational experience over the past 10 years in the Group's Defence and Security activities (2009-2011) and Propulsion activities since 2011 (Safran Helicopter Engines and subsequently Safran Aircraft Engines). The year 2020 will be devoted to specific missions under the authority of Petitcolin.

• **Greg Conlon** has been promoted to the role of President and CEO of GECAS, ef-

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November 18, 2019 – Gibson Hotel, Dublin, Ireland

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INDUSTRY PEOPLE



(l) Greg Conlon, (r) Alec Burger

fective immediately. **Alec Burger** will continue as President and CEO of GE Capital and will also serve as the Chairman of GECAS.

This change in leadership is being done to ensure the continued strength and health of GECAS, with Conlon being fully dedicated to leading the GECAS business with Burger's continued engagement as Chairman.

Conlon has been with GE for 20 years and is a highly respected leader in the aviation financing industry. He is ideally positioned for this role, with a career history including experience in Capital Markets, Asset Trading, OEM Management, Sales, Debt Financing and P&L leadership.



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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	CFM56-5B63	3586	2008	Q3/2020	Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
A320-200	ORIX Aviation	V2527-A5	1509	2001	Q4/2020	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	ORIX Aviation	CFM56-5B4/P	2584	2005	Q1/2021	Sale / Lease	Oisin Riordan	oisin.riordan@orix.ie	+353 86 335 0004
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@dvvbank.com	+44 207 256 4449
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	Jonathan.louch@dvvbank.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
A330-223	Aircraft Engine Lease Finance	PW4168A	970	2008	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 3127721613
A330-300	BBAM	Trent 772B-60	1544	2014	Jul 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	BBAM	Trent 772B-60	1562	2014	Sep 2020	Sale / Lease	Steve Zissis	info@bbam.com	+1 415 486 6100
A330-300	DVB Bank	Trent 772B-60	1485	2014	Q1/2020	Sale / Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
B737-700	Kellstrom Aerospace	CFM56-7B26	28210	1998	Now	Sale	Michael Garcia	info@kellstromaerospace.com	+1 (847) 233-5800
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	Jonathan.louch@dvvbank.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26E	38034	2012	Q4/2020	Sale / 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
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@dvvbank.com	+44 207 256 4449
(2) B787-800	Willis Lease	CFM56-7			soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200LR	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
CRJ-700	Regional One	CF34-8C5B1	10205	2005	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
D0328 Jet	Regional One	PW306B	3185	2001	Now	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164
Do328-100	Jetran	PW119B	3049	1996	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3024	1994	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
Do328-110	Jetran	PW119B	3034	1995	Now	Sale	Nick Blowers	blowers@jetran.aero	+1 (210) 269 3471
ERJ-170LR	AerFin	CF34-8E	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
ERJ170-100LR	Regional One	CF34-8E5	17000123	2006	Nov 2019	Sale / Lease	Chris Furlan	cfurlan@regionalone.com	+1(305) 759-0670 Ext.164

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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 - Sale				
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 (561) 349-8950
(1) CF34-8E5A1	Now - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204x202
(1) CFM34-8C5A1	Oct 2019 - Lease				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E7	Now - Lease				
CF34-8E(s)	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1 (513) 782-4272
CF6 Engines	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	Now - Sale / Lease				
(3) CF6-80E1A4	Now - Sale / Lease				
(1) CF6-80C2A8	Now - Sale / Lease	ULS Airlines Cargo	Cem AKIN	cem.akin@ulsairlines.com	+90 212 496 0202
(1) CF6-80C2A8	Feb 2020 - Sale / Lease				
(1) CF6-80C2B1F	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(2) CFM56-5B (all thrust levels)	Now - Sale / Lease	Contrail Aviation	Kevin Milligan	kevin@contrail.com	+1 949-933-0797
(2) CFM56-7B (all thrust levels)					
(1) CFM56-7B24	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950



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THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines (cont.)

(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
(1) CFM56-5B3/3	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
(1) CFM56-7B22	Now - Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1-214-988-6670
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(2) CFM56-7B22	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(2) CFM56-5B6	Now - Sale / Lease				
(2) CFM56-5B4/P	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(2) CFM56-7B26/27	Nov 2019 - Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(2) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B4/P	Oct 2019 - Lease				
JT8D and JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-219	Now - Sale	AZURE RESOURCES INC.	Jeff Young	jeff@azures.com	1-954-249-7935
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-115B	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) GE90-115	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
GEEx Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GEEx1B74/75 Propulsor	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Now - Lease				
(1) LEAP1A-32	Now - Lease	Rolls-Royce & Partners Finance	Charlie Ferguson	charlie.ferguson@rolls-royce.com	+44-(0)7772224895
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4056-1C	Nov 2019 - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(3) PW121	Now - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW123B/E	Now - Sale / Lease				
(3) PW127E/F/M	Now - Sale / Lease				
(1) PW150A	Now - Sale / Lease				
(3) PW123	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(2) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(3) 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.)

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	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) V2527-A5	Dec 2019 - Sale / Lease	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Wiejer	ewiejer@gatelesis.com	+1-954-676-3111
(1) V2533-A5	Now - Lease	TrueAero Asset Management	Ed Kokoszka	ekokoszka@trueaero.com	+1 772 925 8032
(1) V2527-A5	Now - Lease				

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@azureres.com	1-954-249-7935
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, (2) GTCP131-9B,		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (3) 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	rlsley@logix.aero	+1 602 517 8210
APS3200, APS2300, GTCP85-129H					
(1) APU GTCP331-500, (1) APU GTCP131-9A	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
Engine stands now available	Now - Lease				
ENGINE STANDS: Trent 800, PW4000 112"/V2500		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits					
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368