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# WORLD NEWS

# Pegasus signs up to IATA's '25by2025' pledge

In line with Pegasus Airlines' ongoing efforts to promote gender equality in business and the aviation sector, Pegasus has signed IATA's "25by2025" initiative. IATA aims to improve female representation in the industry by 25%, or up to a minimum of 25% by 2025. Commenting on the initiative, Pegasus CEO Mehmet T. Nane said: "Gender equality is a very important and ongoing issue for us at Pegasus Airlines, demonstrated by the successful initiatives we've implemented thus far."

# KLM to launch Amsterdam – Cork services

Cork Airport welcomed the announcement that KLM will launch a new daily service between Cork Airport and Amsterdam Schiphol Airport from 30 March 2020. Adding an additional 41,000 seats from Cork Airport for the busy summer season, the new Cork – Amsterdam route will be operated by KLM subsidiary, KLM Cityhopper using Embraer 175 and Embraer 190 aircraft, depending on the day of the week.

# FAA proposes \$6.4m fine to Lufthansa

The FAA is proposing a \$6,428,000 civil penalty against Lufthansa for allegedly conducting almost 900 flights that were not in compliance with federal aviation regulations. The FAA alleges Lufthansa operated the flights into and out of San Diego International and Philadelphia International airports when it knew it lacked FAA authorisation to do so. Lufthansa has 30 days after receiving the FAA's civil penalty letter to respond to the agency.



Norwegian's long haul links have boosted traffic volumes.

Photo: Gatwick

# **Long-haul drives traffic at Gatwick** With new links bolstering revenue

The UK's second largest airport London Gatwick revealed in its interim results that new direct routes to Brazil and Argentina have contributed to a 2.3% - or 107,340 passengers – year-on-year uplift for long-haul flying.

According to the airport, passengers have been making the most of Norwegian's new service to Rio de Janeiro and an increase in

flights to Buenos Aires. Combined, these routes led to 101,100 more passengers travelling to South America from Gatwick than the prior year. The new links also provided more opportunity for goods to be transported, leading to year-on-year growth of 39% for cargo between Gatwick and South America.

Overall, in the six months ended

last year. Revenue was up 5.6% to £541.3m, resulting in EBITDA up 7.9% to £350.6m and a profit after tax of £137m.

Around 1 in 5 of Gatwick's passengers is now travelling

to a long-haul destination, with the airport offering more than 60 long-haul routes worldwide. As well as strong growth to South America, the airport has

welcomed new direct routes to Miami, San Francisco, Kuwait City and Mexico this year. The most recent new long-haul route – to

Continued on page 3



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"...new links created to key markets such as South America will play a crucial role in the country's economy..."

Stewart Wingate, Gatwick CEO

30 September 2019, 26.6 million passengers travelled through Gatwick, an increase of 0.2% or an extra 56,803 passengers - compared to the same period

# **Engine Lease Finance**

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#### ... continued from page 1

Shanghai with Air China – launched in early November. Combined with China Eastern flights, Gatwick now offers 11 weekly services to the city.

Stewart Wingate, Chief Executive Officer, said: "As the UK enters an important new chapter on the global stage, new links created to key markets such as South America will play a crucial role in the country's economy and national identity.

"While we were saddened by the recent collapse of Thomas Cook, we

are confident in our future prospects and look forward to easyJet and other airlines using these slots going forward."

"A growing Gatwick means a thriving region and as the airport continues to be transformed under its new ownership – from new global connections, to improved transport links, new jobs and business opportunities – the ripple effect will be felt across all corners of our region."

# **AIRCRAFT & ENGINE NEWS**

#### Airstream arranges F100 aircraft sale

Aircraft remarketing specialist Airstream International Group has arranged the sale of a Fokker F28 Mk0100 aircraft on behalf of Trade Air, Croatia. The aircraft, serial number 11407, was sold to Fly Wings. Airstream continues to build on its strong relationship with Trade Air, having provided advisory services for the purchase of an A320 for the airline last year, as well as being mandated to source a second A320. Airstream provides aircraft sales, leasing and financing services for an international client base that has included airlines, government organizations, lessors, investors and financial institutions as well as part out organizations. Now in its 30th year of trading, Airstream has successfully completed transactions involving more than 625 aircraft.

# FAA announces it will be solely responsible for issuing airworthiness certificates for 737 MAX

The American Federal Aviation Administration has confirmed that it has notified Boeing Co (Boeing) that only the agency will be able to issue airworthiness certificates for the troubled 737 MAX jet rather than continue to share the role with Boeing as had previously been the case. In addition, the agency has confirmed that it is yet to complete its review of all the changes in the design of the 737 along with pilot training procedures. The FAA sent a letter to Boeing on Tuesday of this week, advising them that it "has determined that the public interest and safety in air commerce require that the FAA retain authority to issue airworthiness certificates and export certificates of airworthiness for all 737 MAX airplanes." The agency said it intends to retain the authority to issue airworthiness certificates until such time it feels confident Boeing has "fully functional quality control and verification processes in place" and that other Boeing

#### **Gulfstream delivers G500 to Europe**



Photo: Gulfstream begins G500 deliveries to Europe

Gulfstream Aerospace has delivered the Gulfstream G500<sup>™</sup> to its first European customer. An undisclosed Western Europe-based charter operator took delivery of the aircraft in Savannah. The G500 earned certification from the European Union Aviation Safety Agency on Oct. 11 and is in service in North America, Brazil, the Middle East and Europe. "We are excited about making G500 deliveries to Europe," said Mark Burns, president, Gulfstream. "Since the introduction of the jet in 2014, customers around the world remain impressed and enthusiastic about the innovative cabin, next-generation technology, including the award-winning Symmetry Flight Deck, and high performance, speed and range capability of the aircraft. As the G500 fleet continues to grow in Europe, and around the world, its advanced technology raises the bar for business aviation."

procedures meet all regulatory standards. "We continue to follow the lead of the FAA and global regulators," Boeing spokesman Gordon Johndroe said in an email. "They will determine when key milestones are achieved and when the fleet and training requirements are certified so the MAX can safely return to service." Boeing issued a statement earlier in November indicating it anticipated the FAA would lift the grounding of the 737 MAX around the middle of December, though it did not believe the FAA would complete its review of revised training requirements until January. Among elements that Boeing has to complete prior to obtaining airworthiness for the jet is a certification test flight which has yet to be scheduled, simulator work with international pilots, and completion of a software documentation audit.

# BRIGHT IDEA, BETTER SOLUTION.

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#### Boeing presents first 737 MAX 10

Boeing has presented the first 737 MAX 10 at the company's Renton, Washington factory. The 737 MAX 10 is the largest variant of the MAX family and can seat up to 230 passengers. The airplane will now undergo system checks and engine runs prior to first flight next year. The 737 MAX 10 currently has more than 550 orders and commitments from more than 20 customers around the globe. "Today is not just about a new airplane. It's about the people who design, build and support it," said Mark Jenks, vice president and general manager of the 737 program. "This team's relentless focus on safety and quality shows the commitment we have to our airline customers and every person who flies on a Boeing airplane."



Boeing employees gather for the debut of the first 737 MAX 10

Photo: Boeing

# Airbus delivers H145 helicopter to Airlift



The first H145 helicopter for Airlift

Airlift has taken delivery of its first H145 helicopter, becoming the first operator of this model in Greece. The twin-engine helicopter will be mainly dedicated to VIP transfers, but thanks to the high versatility of its cabin configuration, the aircraft will also be used for emergency medical transport and firefighting. Established in 1999, Airlift was a pioneer in helicopter operations in Greece, where it has built a strong reputation for the quality and safety of its services. The new H145 will be the fifth helicopter to join Airlift's Airbus fleet, which is currently composed of H125-, H130- and H135-family models. The Airbus H145 incorporates an innovative Helionix avionics system and 4-axis autopilot. The aircraft's combination of speed and performance, along with its large cabin and rear-loading clamshell doors, makes it the aircraft of choice for a variety of civil missions worldwide.

Photo: Christian Keller





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### Binter receives first E195-E2 jet from Embraer

Binter of Spain has incorporated the first E195-E2 jet into its fleet at a ceremony held at Embraer's main facility in São José dos Campos. The airline is the first European customer to receive the biggest of the three members of the E-Jets E2 family of commercial aircraft. Binter has placed firm orders for five E195-E2s. The acquisition of the E195-E2s is part of Binter's overall fleet modernization initiative. Each aircraft is configured with 132 seats in a single class. The new aircraft will be deployed across a route network that includes eight cities in the Canary Islands, nine cities in Africa and two in Portugal. Last year, Binter carried 3.6 million passengers.



Binter takes delivery of its first of five Embraer E195-E2 jets

Photo: Embraer

#### CDB Aviation delivers first of three A330 aircraft to Onur Air



subsidiary of China Development Bank Financial Leasing Co., (CDB Leasing), has delivered the first of three Airbus A330-343 aircraft to its new airline customer in Turkey, Onur Air. The remaining two aircraft are expected to deliver in the second quarter of 2020. Onur Air will utilize the additional wide-body aircraft to boost its all-Airbus fleet, while supporting wet-lease, scheduledand charter-operations, both domestically and internationally to destinations including Europe, Russia, and the Middle East.

CDB Aviation, a wholly owned Irish

Onur Air

# SAS takes delivery of Airbus A350 XWB

Scandinavian carrier SAS has taken delivery of its first A350-900, becoming the newest operator of this latest-generation, highly efficient wide-body aircraft. The airline has a total of eight A350-900 aircraft on order and operates an Airbus fleet of 68 aircraft (51 A320 Family, 17 A330 and A340 Family aircraft). In the coming years, as part of an extensive fleet modernization, SAS will take delivery of 54 additional A320neo Family aircraft and the remaining seven A350-900s through direct purchase and lease contracts. SAS's A350-900 features a modern and highly comfortable threeclass cabin layout with 300 seats: 40 "SAS Business" class, 32 "SAS Plus" class and 228 "SAS Go" class seats. On January 28, 2020, the airline will start to operate the new aircraft on its Copenhagen-Chicago long-haul route, followed by other international destinations including North America and Asia.



SAS' first Airbus A350 XWB

Photo: Airbus

## Leonardo delivers first two P-72Bs to Italy's Guardia di Finanza



Italy's Guardia di Finanza takes delivery of two P-72Bs from Leonardo

Photo: Leonardo/Luca Nicolotti

with general jurisdiction capable of exercising incisive and constant supervisory activities along the entire nation's coastal development and in international waters, carried out also through having advanced technological equipment installed on its own aircraft. Specific latest-generation capabilities embedded for the first time into the ATR 72MP will be useful to support dedicated surveillance activities entrusted to the Guardia di Finanza. The ATR 72MP will operate in air-sea patrol and research missions, using onboard sensors to identify, even discreetly, sensitive objects, monitor their behavior, acquire evidence, and lead the intervention of naval units and land patrols.

# **MRO & PRODUCTION NEWS**

## All Nippon Airways and LHT sign MoU for technical collaboration on Boeing 777-9

All Nippon Airways (ANA) and Lufthansa Technik have signed a comprehensive Memorandum of Understanding (MoU) regarding a technical collaboration project for the Boeing 777-9. The Japanese carrier is one of the launching customers for the 777-9, while Lufthansa Technik is currently preparing its maintenance, repair and overhaul (MRO)-readiness for the arrival of the first Lufthansa aircraft of this type planned for the beginning of 2021. The collaboration will contribute to the success of both companies and help to enable bestin-class dispatch reliability for ANA and for Lufthansa Technik's future customer fleet from day one of entry into service of the 777-9 aircraft. The two partners have already identified



All Nippon Airways and LufthansaTechnik contract signing

Photo: LHT

different engineering and maintenance areas in which they want to collaborate or have even started to do so. In the entry-into-service phase of the aircraft, the two companies want to share insights and best practice in engineering services and want to collaborate in aircraft production inspection. They will also cooperate in the fields of material planning and sharing, line maintenance services and aircraft-on-ground (AOG) support. Furthermore, the partners plan to develop digital maintenance predictors on the technical base of AVIATAR, Lufthansa Technik's independent digital operations suite. Further upcoming fields of collaboration will constantly be discussed between the two companies.

The first two out of four P-72Bs ordered by Italy's Guardia di Finanza have been handed over during an official ceremony held at Leonardo's Caselle Torinese facility. Deliveries will be completed by 2022. Lucio Valerio Cioffi, Aircraft Division MD at Leonardo, said: "We are proud that Guardia di Finanza has chosen to integrate our ATR 72MP into its naval airborne capabilities. This aircraft fully represents Leonardo's technological capabilities and it combines reliability, low operating costs in addition to the ATR 72-600 regional passenger transport benefits." Designated as P-72B, the aircraft will be integrated into the aeronautical capabilities of Guardia di Finanza, within the framework of the multirole tasks assigned to the

operator. The Guardia di Finanza is the only law enforcement agency

# Etihad Engineering and Satair sign supply agreement



Delegates from Etihad Engineering and Satair gather at Dubai Airshow after the contract signing

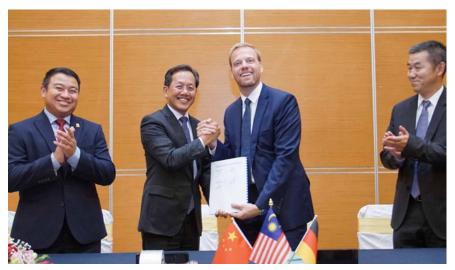
Etihad Engineering, the commercial aircraft maintenance, repair and overhaul (MRO) services provider in the Middle East, has signed a supply agreement with Satair, one of the largest aviation spares and solution providers. The signing ceremony took place at Dubai Airshow 2019. The agreement covers supply chain solutions that will ensure worldwide availability for selected aircraft parts. While this signing marks the official agreement between Satair and Etihad Engineering, the business relationship between the two dates back more than 25 years.

## West Star Aviation completes custom paint job on first Embraer Praetor 600

West Star Aviation (West Star) has completed a custom paint finish on a new, factory-delivered Embraer Praetor 600, a first for the company. The new aircraft was brought to West Star directly from the Embraer factory at the request of the customer for a unique and custom paint job. With its state-of-the-art paint facility, West Star i capable of handling large and small paint projects, as well as being a onestop shop for our customers and their requests.



## MTU Maintenance signs exclusive CFM56-7B contract with Malaysia Airlines Berhad



Malaysia Airlines Berhad and MTU Maintenance signing ceremony

Photo: MTU

MTU Maintenance and Malaysia Airlines Berhad have signed an exclusive ten-year contract for the airline's over-100 CFM56-7B engines. The contract covers maintenance, repair and overhaul for the engine fleet until phase-out and includes lease engines and LLP management. The service offering incorporates MTU Maintenance's PERFORMPlus solution for newer engines, ensuring longer onwing times through optimized fleet management, engine trend monitoring, on-site services and lease support. Further, it also draws on numerous elements of the company's SAVEPlus solution for more mature engines, using smart strategies to minimize cost at end of life. MTU Maintenance Zhuhai will be carrying out these services on behalf of Malaysia Airlines. Malaysia Airlines is the national carrier of Malaysia and transports 40,000 guests on more than 300 flights daily to 59 destinations around the world.

# Novair becomes first CFM LEAP-1A Engine Services customer of Lufthansa Technik



The Swedish charter carrier Nova Airlines AB (Novair) and Lufthansa Technik have signed a long-term exclusive engine maintenance services contract, for the CFM International LEAP-1A engines of Novair's two Airbus A321neo aircraft. Thereby, Novair has become the launching airline customer of Lufthansa Technik's technical services for this new engine type. Lufthansa Technik has received the approval for this engine type by the German federal aviation administration LBA (Luftfahrtbundesamt) and is now in the position to offer comprehensive technical support for the LEAP-1A engine. Covered by the new contract are different services, including engineering, overhaul and testing, mobile engine services (MES), engine parts repair and warranty handling. Novair is the in-house airline for the Scandinavian tour operator Apollo Travel Group. Both form part of DER Touristik Nordic.

#### AJW Group invests in Bombardier Global Express components

AJW Group has bolstered its presence in the business jet market with a major investment in Bombardier Global Express components. Available inventory includes two BR710 engines, landing gear ship set, flaps and auxiliary power units (APUs). The inventory is held at AJW Technique, the state-of-theart facility that forms the centralized hub for the AJW Group's MRO in Montreal and available for shipment worldwide. AJW has held a contractual relationship with Bombardier since 2018. undertaking all repair management for the OEMs' rotable inventory. The work covers Bombardier's Learjet, Challenger and Global series family of aircraft.



Photo: AJW Group invest in Global Express components

### Liebherr LAMC Aviation (Changsha) delivers 100th ARJ 21 landing gear strut



Photo: Liebherr LAMC Aviation (Changsha) landing gear work

Liebherr LAMC Aviation (Changsha), the joint venture between the Chinese company LAMC (AVIC Landing Gear Advanced Manufacturing) and German-based Liebherr-Aerospace Lindenberg, has delivered the 100th landing gear strut from Changsha for COMAC's twin-engine ARJ21 regional jet program. Since the first delivery ceremony for the ARJ21's landing gear struts took place in 2016, a lot has happened at Liebherr LAMC Aviation (Changsha). The successful joint venture is not only celebrating the milestone of the 100<sup>th</sup> landing gear strut delivered to COMAC, but it is also on course to ramp up production to 90 landing gears struts per year by 2020. In addition to the ARJ21 program, LLA is also home to the assembly line for COMAC's narrow-body twinjet C919 landing gear struts. The ceremony for the first delivery of the C919 landing gear strut for flight test aircraft 104 from this facility occurred in 2018. The company is set to ramp up production to 145 landing gear struts per year by 2025, and its first delivery of two shipsets (or six struts) for series production is scheduled for the second guarter of 2020. COMAC plans to deliver the first C919 to its customer in 2021. Liebherr LAMC Aviation's (Changsha) campus comprises an almost 54,000 ft<sup>2</sup> state of the art facility, equipped with two separate assembly lines - one for each program, ARJ21 and C919. Its new and robust ERP system allows LLA to gain full logistics responsibility - streamlining planning, procurement and inventory turnover. Having logistics autonomy can significantly and positively impact operations as the plan is to grow not only deliveries of new final ship-set assemblies, but also the maintenance and repair of existing landing gears from established operators in the region.

# MRO & PRODUCTION NEWS

# **C&L** Aerospace signs supplier agreement with Thai Aviation Industries

C&L Aerospace has signed an exclusive supplier agreement with Thai Aviation Industries (TAI), Thailand's aircraft repair and maintenance service center. This partnership will allow C&L to better support the Royal Thai Airforce's fleet of Saab aircraft through Thai Aviation Services. The agreement, which is for two years, is the continuation of the successful history of the two companies working closely together to provide cost-effective solutions for Saab operators. "Having this deal in place allows for fluid communication and inventory movement between both TAI and C&L," said Jameel Wazir, C&L Executive Vice President. "Our commitment remains to be able to understand and anticipate the customer needs to provide the best possible support."

# Jat Tehnika achieves EASA Part 145 approval on SSJ100 regional jet

Jat Tehnika has successfully achieved EASA Part 145 approval for various line and base maintenance activities on the Superjet 100 (SSJ100) regional jet, with the support of SuperJet International for necessary personnel training, spares and technical services. This new cooperation will enable Jat Tehnika to perform a wide range of line and base services on the SSJ100 at its own facilities in Belgrade, Nikola Tesla airport, Serbia, as well as in other selected line outstations. Miroslav Musulin, CEO of Jat Tehnika, stated: "Jat Tehnika continues its strategic goal to be among the most advanced MRO key players in the market of state-of the art aircraft such as Boeing MAX, Airbus NEO and Superjet 100. Safety and environment protection are our greatest achievements and we will continue to support the similar projects with the same pace in the future."

# ST Engineering's Aerospace arm secures 15-year engine maintenance contract from Japan Transocean Air

ST Engineering has released that its aerospace arm, has secured a 15-year engine Maintenance-By-the-Hour (MBHTM) contract from Japan Transocean Air. Under the agreement, ST Engineering will provide an integrated suite of engine MRO solutions that include off-wing maintenance support, on-wing services and technical support to the airline's Boeing 737NG fleet. These services will be provided over a period of 15 years starting from 2020 at the Group's engine MRO facilities in Singapore.

# Recaro Aircraft Seating to outfit KLM Cityhopper's 195-E2 fleet of 21 aircrafts



Boeing 787 completion

Photo: L3Harris Technologies

Recaro Aircraft Seating has been selected by KLM Cityhopper, KLM's regional carrier, to outfit the 21 Embraer 195-E2 aircrafts they recently ordered. Each aircraft will have a hybrid layout of Recaro BL3710 and SL3710 seats, and the first 195-E2 is slated for delivery in the first quarter of 2021. The unique cabin layout of the plane reflects Recaro and KLM's dedication to reducing the carbon footprint, as it will optimize weight efficiency while still ensuring passenger comfort. With 132 seats on board, the 195-E2 will be the largest aircraft in KLM Cityhopper's fleet and will help accommodate growth. The partnership between these aviation industry innovators will only further enhance KLM's sustainability initiative, "Fly Responsibly," and the commitment of Recaro to the research and development of more efficient seats.

# MILITARY AND DEFENCE

# Airbus Helicopters boosting support for French Cougar and Caracal fleets



Airbus Helicopters and its partner Heli-Union have signed a global support contract for the Cougar and Caracal helicopters in service in the French Army and Air Force. This agreement signed with the DMAé, the defense agency in charge of improving the availability of military aircraft in France, is the first contract that Airbus Helicopters has

Photo: Airbus Helicopters/A. Pecchi

signed as part of the new approach initiated by the French Minister of the Armed Forces, Florence Parly. This long-term contract aims at increasing the availability of the Caracal and Cougar fleets by making Airbus Helicopters responsible for the entire scope of the aircraft's support. Airbus Helicopters has committed to limiting the number of aircraft in heavy maintenance by reducing the duration of the maintenance cycles for each helicopter type by up to 20%. Additionally, the commitments taken on logistics and technical assistance will reduce the downtime linked to these activities. Airbus Helicopters will also propose, in cooperation with its partner Heli Union, a maintenance center close to one of its customer's sites in Pau and will also involve a significant number of French SMEs in the equipment repair activities. The French armed forces operate 18 H225Ms, also known as Caracal in French service missions, as well as 26 Cougars, some of which are currently performing troop transport, special forces and search and rescue missions in demanding theatres of operation worldwide.

# **MRO & PRODUCTION NEWS**

Japan Transocean Air is a subsidiary of the Japan Airlines Group, which ST Engineering has been a longstanding partner of for MRO solutions, from integrated component services for their Boeing 737-800 fleet to airframe maintenance for their Boeing 737NG fleet.

# FINANCIAL NEWS

# Fly Leasing reprices and extends 2012 term loan

Fly Leasing (Fly) has repriced its US\$385 million term loan. The interest rate on the amended loan is LIBOR plus 1.75%, a 0.25% margin reduction. Additionally, the maturity has been extended by more than two years from February 2023 to August 2025. In conjunction with the extension, FLY paid a one-time fee of 0.25% OID to the lenders. "FLY's strong upward trajectory, combined with its significant deleveraging and recent Standard & Poor's rating upgrade, created the momentum for the successful repricing of FLY's largest debt facility. We anticipate annual cash interest savings of nearly US\$1 million," said Colm Barrington, CEO of FLY. "We remain committed to reducing our borrowing costs while opportunistically extending debt maturities. FLY will continue to explore other opportunities to optimize its balance sheet and create value."

# Lufthansa sells European business of LSG Group to Gategroup

Lufthansa Group has confirmed the decision of its Executive Board on the sale of the LSG Group's European business to Gategroup. The sale is part of the new strategy of Lufthansa Group to focus on the airline business. The sale enables the new owner to further develop the catering business. The potential sale is subject to the approval of additional bodies, in particular the Supervisory Board of Deutsche Lufthansa AG, as well as clearance by the competition authorities.

# Air Lease Corporation announces pricing of offering of CA\$400 million of senior unsecured medium-term notes

Air Lease Corporation has CA\$400 million, or US\$301 million (based on a Canadian dollar/U.S. dollar exchange rate of C\$1.00=U.S.\$0.7523, as announced by the U.S. Federal Reserve Board as of November 22, 2019), aggregate principal amount of 2.625% senior unsecured mediumterm notes due December 5, 2024 (the Notes). The sale of the Notes is expected to close on

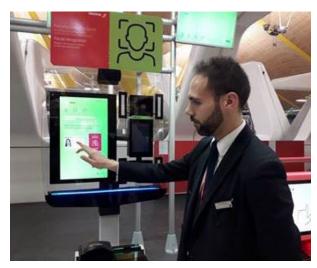
#### Rolls-Royce secures five-year MissionCare<sup>™</sup> contract

Rolls-Royce has secured a five-year MissionCare™ contract valued at US\$1.2 billion to maintain AE 1107C engines on U.S. Marine Corps, Navy and Air Force V-22 aircraft. Rolls-Royce has delivered nearly 1,000 AE 1107C engines to power the fleet of V-22 aircraft in operation around the world. The total fleet of more than 375 MV-22s and CV-22s in service recently topped 500,000 flight hours – or 1 million engine hours on the twinengine aircraft.



Photo: Rolls-Royce

Under the Rolls-Royce MissionCare<sup>™</sup> contract, the company will be responsible for all aspects of propulsion system support, on a Power by the Hour<sup>™</sup> basis. Rolls-Royce AE 1107C engines are assembled in Indianapolis, in the company's largest facility in the U.S. The engines are part of the AE engine family, which has a proven record of reliable service in military and civilian aircraft. The AE engine fleet has topped 77 million hours of dependable service around the world. The Rolls-Royce facilities in Indianapolis are nearing completion of a US\$600 million investment to modernize and upgrade technology, resulting in a state-of-the-art advanced manufacturing operation.



Iberia, along with the Spanish airports and air traffic control authority Aena, IECISA, Gunnebo and Thales companies, has unveiled a facial recognition pilot project at Iberia's hub in Terminal 4 at Adolfo Suárez Madrid-Barajas Airport, with the aim of improving customer experience at the airport by enabling customers to identify themselves at both general and fasttrack security control and at the boarding gates with their biometric profile, eliminating the need to show travel documents. The new system will be

Iberia will start a facial recognition pilot project at Iberia's hub in Terminal 4 at Adolfo Suárez Madrid-Barajas Airport Photo: Iberia

tested during a period lasting between six and twelve months with Iberia passengers bound for Asturias or Brussels, both destinations served with up to five daily Iberia flights. It is a pioneering project allowing users to register via an app on their mobile devices, and also available on the kiosks placed at check-in counter 848 and in front of the security control area of T4. The facial recognition system is also installed at T4 boarding gates J40 and J58. It is easy to sign up for this capability using the Iberia App and clicking on "Personal Area". The user is asked to take a photograph of his or her photo ID, and then to take a brief "video selfie", which allows system software to verify there is a good match between them. The biometric profile is then transmitted to the Aena database. Before the flight, customers will have to associate their boarding pass to Asturias or Brussels with its biometric profile, so that when they checkin online, the system will offer them the possibility of using facial recognition to go through security control and the boarding gate.

# FINANCIAL NEWS

December 5, 2019, subject to satisfaction of customary closing conditions. The Notes will mature on December 5, 2024 and will bear interest at a rate of 2.625% per annum, payable semi-annually in arrears on June 5 and December 5 of each year, commencing on June 5, 2020. Owners of the Notes will receive payments relating to their Notes in Canadian dollars. The company intends to use the net proceeds of the offering for general corporate purposes, which may include, among other things, the purchase of commercial aircraft and the repayment of existing indebtedness.

# INFORMATION TECHNOLOGY

Aircamo Aviation (Aircamo) has selected OASES to support its established CAMO and technical management operations. Aircamo is an aircraft asset management and airworthiness company, providing transition and heavy maintenance support to airlines, leasing companies and operators worldwide. Based out of Manchester Airport Business Park (U.K.), the company specializes in Private/Commercial Aircraft and Engine Technical and CAMO Management advisory services. Aircamo's technical approvals include: EASA Part M - UK.MG.0697, Guernsey 2-REG.39.34, Bermuda BDA/CAMO/166, and Cayman Islands 081-CAY-CAMO-2019. The Aircamo team consists of very experienced senior technical managers, many of whom previously worked with a variety of large airlines, MRO's and leasing companies. Aircamo has chosen the Core, Airworthiness and Planning OASES modules, which will be implemented in Commsoft's Private Cloud. Discussions are well underway between Commsoft and the Aircamoteam, where data migration consultancy and support will be key components of the project plan. Due to uncertainty within the market, Aircamo is providing "Shadow CAMO" services for several lessors who want to react quickly in the event of a default or collapse.

# **OTHER NEWS**

Air BP, the international aviation fuel products and services supplier, has signed a technical services agreement with **Sonangol**, the stateowned oil company in Angola. This marks Air BP's entry into the country and expands its footprint in Africa, one of the fastest-growing aviation regions over the next 20 years according to the **International Air Transport Association** (IATA). As part of the technical services agreement, Air BP will support Sonangol in assuring its operations to international



Photo: Air Astana will start service from Paris to Almaty in 2020

**Air Astana**, the national carrier of Kazakhstan, has announced a new service from Paris to Almaty, that will launch in June 2020. The flights will operate three times a week using the carrier's new Airbus A321LR, which entered revenue service on the Air Astana network last month. Air Astana made its debut on Paris-Astana (now Nur-Sultan) in Spring 2015, using a B757. The service between the French Capital and Almaty, Kazakhstan's commercial center and second city, will operate on Wednesdays, Fridays and Sundays. Flight times are 7 hours, 45 minutes and 7 hours and 15 minutes, respectively.



Photo: Domodedovo Airport

**Moscow Domodedovo Airport** is piloting cleaning robots. The initiative aims to improve automation of the air hub operations. The airport has tested TASKI SWINGOBOT 2000, CLEANFIX RA 660 NAVI, and Russian VeDroid. The tests took place in the office space, and in the terminal building and the evaluation takes into account safety, design for manufacturing, quality of cleaning, as well as economic efficiency. "Safety is our key requirement for cleaning robots. It is essential that if the obstacles appear, for instance, baggage trolley, a robot should stop, make a quick decision and resume movements without performance degradation. If a robot cannot continue the cleaning, it should go back to the service station," said Moscow Domodedovo Press Secretary Alexander Vlasov. The robots ensure fast and quality cleaning, but should be tailored to working in a dynamic airport environment, meeting all the safety requirements. The airport will complete the testing by the end of the year, while the final purchase decision will be made in 2020.

# **OTHER NEWS**

standards, providing advice on product quality, operations, HSSE and engineering. Training programs will be delivered in Portuguese to build knowledge and competence locally, as well as bringing Air BP's internationally renowned expertise to Sonangol's airport operations and related engineering projects. Air BP's technical services offer comprises a complete aviation fuel consultancy service tailored to customers' individual requirements. It includes a range of innovative technical services for airports including the design, build and operation of fueling facilities to help customers comply with international standards, protect their operations and manage risk.

expanded joint-venture An involving transatlantic flights between Delta Air Lines, Virgin Atlantic and Air France-KLM has received the go-ahead from the U.S. Department of Transportation which the partnership claims will provide "the most comprehensive route network, convenient flight schedules, competitive fares and reciprocal frequent flyer benefits." Covering all services between the USA and Europe, this new and expanded partnership will replace other existing agreements between the carriers, but will now exclude Alitalia, which had previously been involved. A statement issued by the U.S. Department of Transportation said: "The new joint venture will offer consumers the same benefits from the prior joint ventures, such as increased capacity and frequent flyer cooperation, as well as new benefits such as more options on European flights." However, the approval given by the DOT also includes conditions aimed at protecting competition, promoting public benefits and increase seat availability. The joint venture was first announced in July 2017, at the same time as Delta took a 10 percent stake in Air France-KLM and Air France KLM agreed to acquire a 31 percent stake in Virgin Atlantic, a deal which was completed earlier this year. Delta Air Lines had previously completed its acquisition of a 49% stake in Virgin Atlantic in June 2013. The only major objection to the JV came from U.S. low-cost carrier JetBlue Airways Corporation, which has plans to commence transatlantic flights in 2021. It argued that the JV would create an oligopoly and lead to a restriction of available slots at London Heathrow Airport, a criticism the JV felt was "unjustified", making it clear in a statement that it would not have any: "material impact on slot concentration at any U.K. or European airport". The statement added that: "The record clearly establishes that there is no material competitive overlap - and zero nonstop overlaps - between Virgin Atlantic and Air France-KLM in the transatlantic market."



Photo: Avion Express Malta

Avion Express Malta, a subsidiary airline of Avion Express, has received its FAOC (Foreign Air Carrier Certificate) from Transport Canada, issued by the Minister of Transport on November 1. Avion Express Malta started its operations in May and had been flying for Europe's third-largest low-cost airline, Norwegian Air, for the whole summer season. At the same time, new business areas for newly established Avion Express Malta had been explored and tabs were kept on the promising region across the Atlantic. Acquiring its FAOC becomes a significant milestone for the young Malta-based company, as the certificate serves as a prerequisite to air operators seeking to conduct an air transport service to and from Canada.



Honolulu – Fukuoka launch

Photo: Hawaiian Airlines

Hawaiian Airlines has welcomed guests aboard its inaugural flights between Fukuoka Airport (FUK) and Honolulu's Daniel K. Inouye International Airport (HNL), thus starting its four-timesweekly nonstop service with an Airbus A330 aircraft. Fukuoka becomes Hawaiian's fourth gateway city in Japan, which complements its existing network of nonstop service connecting the Hawaiian Islands with Osaka, Sapporo, and Tokyo's Haneda and Narita airports. The carrier now operates 35 weekly nonstop flights between Japan and Hawai'i and will begin additional daily service between HNL and Tokyo Haneda on March 28, 2020.

# **OTHER NEWS**

At a gathering of members of the Association of Asia Pacific Airlines at Kuala Lumpur on Monday November 25, assembly passed a number of resolutions, including those on the environment, infrastructure, slots, passenger facilitation, and taxation. "The emergence of Asia as a powerhouse driving the global economy during the 21st century naturally creates a sense of optimism for the region's dynamic air transport industry in the long term," said Andrew Herdman, AAPA Director General. "However, success cannot be automatically assured without robust efforts to support carriers, who continue to face an ever-increasing number of challenges to achieving strategic development and growth. Given the significant contribution that air transport makes towards wider economic and social development, governments need to adopt a much more positive attitude towards the industry and work meaningfully towards removing obstacles that hinder the sustainable growth of the industry." With regard to aviation infrastructure, the Asia Pacific region recognises that travel demand is projected to more than double over the next two decades. As a consequence, considerable investment has to be made in airport and air traffic management (ATM) infrastructure development and, as the AAPA states: "to collaborate beyond national borders and commit to the development and implementation of enhanced Asia Pacific air traffic flow management systems." Snapshots of the Assembly's other resolutions include, for the environment: "AAPA calls on governments and operators to work together towards the effective implementation of CORSIA in a way that is fair and equitable, avoids competitive market distortion, and recognizes the interests of developed and developing nations." In relation to cybersecurity: "As such, AAPA urges governments, industry and other stakeholders to establish a global and regional approach to cybersecurity built on the basis of trust and transparency, and to work together to enhance cyber threat awareness, promote cybersecurity culture, and strengthen cyber resilience." Regarding air travel accessibility: "AAPA calls on governments to work closely with other aviation stakeholders towards a shared long-term vision of harmonised international practices on the facilitation of passengers with disabilities, with the aim of achieving a more inclusive air transport system." In relation to slots: "AAPA calls on governments and slot coordinators to manage the allocation of slots in an independent, transparent, fair and non-discriminatory manner in line with ICAO guidance and established international standards and procedures such as the Worldwide Airport Slots Guidelines," while finally, on taxation: "AAPA renews its call on governments to refrain from increasing the burden of aviation levies in any form on international air travellers."



Ab Initio students

Photo: BAA

BAA Training, one of the top-three biggest independent aviation training centers in Europe, has announced it is expanding its Ab Initio flight school. Currently operating in Lithuania and Spain, the academy adds one more flight base in Spain and expands its training infrastructure. Providing Ab Initio training since 2009 and collaborating with major airlines for cadet training programs since 2016, BAA Training currently has over 310 students at its Ab Initio school. Last year, in addition to the headquarters flight base in Lithuania, the Academy opened its first flight base at Lleida-Alguaire International Airport in Spain. The expansion and development of the new flight base was executed in order to ensure year-round flight training. In 2019 the company became a partner of Turkish Airlines for the cadet training programs supplementing already ongoing programs with such airlines as Wizz Air, Avion Express and SmartLynx. In addition, pilot assessment for the cadet program with LOT Polish Airlines has been started. Therefore, with the continually growing student number, BAA Training will add the second flight base in Spain - at Castellón Airport. Along with the infrastructure expansion, BAA Training is now supplementing its fleet with additional aircraft. With up to €6 million (US\$6.6 million) investment, BAA Training is set to expand its Ab Initio fleet by more than 70% in 2020 and invest additional €10 million (US\$11 million) in 2021.



Photo: British Airways

After the first-ever strike action by pilots in the carrier's history, **British Airways** (BA) has come to a preliminary agreement with the **British Airline Pilots Association** (BALPA) which represents over 4,000 of the carrier's pilots. Commenting on the situation, BALPA said in a statement: "We can confirm that BALPA, BA and ACAS have put together a new pay and conditions proposal and, subject to final checks, BALPA expects it will shortly be consulting its 4,000 BA members on them." The deal was put together under the guidance of ACAS – the Advisory, Conciliation and Arbitration Service – and, according to the Financial Times, as part of the agreement, BA has agreed to insert an inflation protection clause to its previous pay offer of an 11.5% rise over three years. BA is a part of the International Airlines Group (IAG) and has, in addition, offered improvements to working conditions, rostering and flight bonuses as part of the deal. The strike, which took place in September of this year, was responsible for grounding 1,700 flights and reportedly cost BA in the region of €137 million (US\$151 million.).

# **INDUSTRY PEOPLE**



 C&L Aerospace has named Miguel
A. Delgado as its Regional Sales
Manager responsible for Latin America and the Caribbean.
Delgado has over
30 years of Latin
American aviation

Miguel A. Delgado

parts sales experience and expertise in creating innovative solutions for customers. He will further develop C&L's relationships with Latin American regional airlines, specializing in ATR, ERJ, Beech 1900, and Saab 340 aircraft, along with military operators utilizing T700 and CT7 engine platforms. Delgado was previously Americas Sales Director with Acumen Aviation. He will utilize his wealth of aviation experience and knowledge to support customers with the aircraft parts and programs that support their needs. Delgado is based out of Miami, Florida.

• The Association of Asia Pacific Airlines (AAPA) has released that Subhas Menon will take up the position of AAPA Director General with effect from March 1. 2020. following the decision by the current Director General Andrew Herdman to step down after having successfully led the Association since 2004. Menon has over 35 years of experience in international aviation with the Singapore Airlines Group, having served in a wide spectrum of senior management roles including international relations, marketing, product development, logistics, and country and regional management, most recently as Regional Vice President Europe.



 Gulfstream
Aerospace has appointed Julien
Nargeot as regional vice president of sales for Southeast Asia, Australia and New Zealand, and Brian
McCarthy as regional sales manager in the

Julien Nargeot

region. Nargeot joins Gulfstream with 12 years' experience with a businessjet original equipment manufacturer, where he held a pilot type rating and was involved with pilot training and operational support, aircraft technical support and customer service. More recently, he spent seven years in new aircraft sales for the Middle East. Nargeot holds a master's degree in aeronautical engineering from France's École Supérieure des Techniques Aéronautiques et de Construction Automobile (ESTACA), which included a year of aerospace and space mechanics study at Kasetsart University in Bangkok.

 Lockheed Martin has appointed Steve Froelich as the vice president of Rotary and Mission Systems operations for Australia and New Zealand, and Programme Executive for AIR6500. He will be responsible for business performance and organizational transformation and will join the local leadership team to build a foundation for future growth in the region. A critical component of the future strategy will be leadership of Lockheed Martin's efforts related to the AIR6500 program, which will provide an even greater level of capability and integration across the Australian Defence Force (ADF). This transformational capability will require a 5th-generation, multi-domain technical solution. It will also require a strong sovereign team with robust, trusted partnerships across multiple military services, large companies, and small and medium enterprises (SMEs).

# Recommended Events





AviTrader Publications Corp. Suite 305, South Tower 5811 Cooney Road Richmond, BC Canada V6X 3M1

> Publisher Peter Jorssen Tel: +1 604 318 5207

Editor Heike Tamm editor@avitrader.com Tel: +34 (0) 971 612 130

Advertising Inquiries and Customer Support Jenny Vogel jenny.vogel@avitrader.com Tel: + 49 (0) 8761 346 007

For inquiries and comments, please email: editor@avitrader.com

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#### **Commercial Jet Aircraft**

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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	aircraftsales@dvbbank.com	+44 207 256 4449
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
A320-200	DVB Bank	V2527-A5	3734	2009	Q1/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-214	DVB Bank	CFM56-584/3	3767	2009	Q1/2021	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A320-232	DVB Bank	V2527-A5	2156	2005	Q1/2020	Lease	Jonathan Louch	aircraftsales@dvbbank.com	+44 207 256 4449
A330-200	DVB Bank	CF6-80E	814	2007	Q2/2020	Lease	Jonathan Louch	aircraftsales@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	Presidio Aircraft Leasing	CF6-80E1A3	871	2007	Now	Lease	Stephen Haire	shaire@aelfinc.com	+1 312 772 1613
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	Presidio Aircraft Leasing	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	aircraftsales@dvbbank.com	+44 207 256 4449
A330-300	DVB Bank	Trent 772B-60	1146	2010	soon	Lease	Jonathan Louch	aircraftsales@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
B737-800	DVB Bank	CFM56-7B27	28178	1999	Q4/2019	Lease	Jonathan Louch	aircraftsales@dvbbank.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	ORIX Aviation	CFM56-7B26	34153	2005	Q1/2021	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
(2) B787-800	Willis Lease	CFM56-7			soon	Sale / Lease	Nick Pittler	willisassetsales@willislease.com	+1 (415) 408-4775
Regional	Jet / Turboprop Aire	craft							
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







# 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	1) CF6-80C2B1F Now - Lease		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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#### 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) CFM56-5B4/3	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@azureres.com	1-954-249-7935
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
-		Willis Lease	Jennifer Merriam		+1 (561) 349-8950
(1) GE90-115B	Now - Lease			leasing@willislease.com	
(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
(1) GEnx1B74/75 Propulsor	Jan 2020 - 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) LEAP-1A32	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(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
(1) PW127F	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(3) PW127M	Now - Sale/Lease/Exch.				
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				
	Now - Lease				
PW127F					
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	Now - Sale/Lease/Exch.		Remi Krys	rkrys@logix.aero	+33.6.2079.1039
	Now - Sale/Lease/Exch.				
(4) PW127M					
(4) PW127M (1) PW118	Now - Lease / Exchange				
	Now - Lease / Exchange Now - Lease / Exchange				
(1) PW118 (1) PW118A	0				
(1) PW118	Now - Lease / Exchange				
(1) PW118 (1) PW118A (1) PW119B	Now - Lease / Exchange Now - Lease / Exchange				
(1) PW118 (1) PW118A (1) PW119B (1) PW121	Now - Lease / Exchange Now - Lease / Exchange Now - Lease / Exchange				

# Commercial Engines (cont.)

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(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
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				C	
(3) GTCP131-9A, (2) GTCP131-9B,		GA Telesis		apu@gatelesis.com	+1-954-676-3111
(1) GTCP331-200ER, (3) GTCP331-500, (1) PW	/901A			1 00	
GTCP131-9A, GTCP131-9B, GTCP331-350C		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			Line Loneity	newske)@iegiklasie	1 002 011 0210
(1) APU GTCP331-500, (1)APU GTCP131-9B	Now - Sale / Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
	Now - Lease	Willis Lease	Jennier wernam	leasing@willislease.com	+1 (301) 349-8930
Engine stands now available ENGINE STANDS: Trent 800, PW4000 112"/V2		National Acro Standa		current@stands.core	1 1 005 550 0070
		National Aero Stands		support@stands.aero	+ 1 305-558-8973
/ CFM56/ PW2000 & Bootstrap kits				k.ebach@lhaero.com	
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	gel@avitrader.com, +49 (0)876	+49-6731-497-368