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WORLD NEWS

American to expand UK operations

American Airlines (AA) plans to add more services on its popular Los Angeles – London Heathrow route from March 2015. A new daily service will bring to four daily services offered along with partner British Airways. AA will also introduce a new destination when Birmingham, England joins the network. The new daily service from New York's John F. Kennedy International (JFK) is scheduled to begin May 7 with a Boeing 757.

WOW air responds to strong demand

Stronger-than-expected demand for WOW air's new international service from Baltimore/Washington International Thurgood Marshall Airport (BWI) to Iceland and on to Europe has prompted the upstart Icelandic air carrier to begin service earlier than originally planned and to make what was scheduled as seasonal service year-round. The \$99 one-way fares to Iceland that made headlines last fall will continue with the expanded service.

E-visas launched in Oman

Royal Oman Police has introduced a new system called the "E-Visa" web based application. This application permits travellers to apply online and receive their visa confirmation once issued. The "E-Visa" is valid to tourist Visa applicants strictly from countries granted a visa on arrival in Oman. Applicants will need to fill out the application online and submit an application after paying a minimal fee, they will then receive an online payment receipt, and this will then be shown to the immigration officer upon arrival to Oman. Once payment information is cleared the visa will then be issued.



AirAsia affiliates are monitoring developments closely.

Photo: Airbus

AirAsia flight QZ8501 update: Warning alarms scream stall!

There is a lot of debate currently over what happened in the last few moments of AirAsia QZ8501. There are no final conclusions reached at this stage while the back box data is being fully analysed but all indicators have led to yet another stall. (Similar to Air France 447). Reports from Indonesian officials indicate that the stall warning horn could be heard going off on the cockpit voice recorder. The A320-200 is thought to have encountered difficulties from an approaching storm.

The key debate at the moment is around the rate of climb, this is based on the flight crew's last communication asking to change

to a higher altitude. Indonesia's Transport Minister Ignatius Jonan told the Indonesian parliament on January 20 that "the flight ascend-

"...the flight ascended at a far faster rate than normal during its final minutes, according to radar data, after which it stalled and crashed."

Indonesia's Transport Minister Ignatius Jonan

ed at a far faster rate than normal during its final minutes, according to radar data, after which it stalled and crashed."

Jonan also told a parliamentary hearing in Jakarta that flight QZ8501 had ascended at a speed of 6,000ft (1,828m) per minute. Aviation experts have been quick to respond that the climb of 6000ft

per minute before it lost contact was unusual but not impossible during severe turbulence.

Former airline director for Merpati Nusantara Airlines Mr Sardjono Jhony suggested it was no surprise the plane was climbing at such a rate in the midst of bad weather,

but that no one should be jumping to conclusions.

Coincidentally, the BBC reports that Mr Jonan told the hearing that radar data from the moments before the plane was lost revealed its speed of ascent. "It is not normal to climb like that. It's very rare

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Reliance Aircraft
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Terry Hix thix@relianceaircraft.com
(512) 439-6988 | Austin, TX

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for commercial planes, which normally climb just 1,000 to 2,000 feet per minute," said Jonan. "It can only be done by a fighter jet." He added.

Gerry Soejatman a local independent aviation expert cited the even higher climb rate made by Air France 447, which crashed in 2009 after a rapid climb and subsequent loss of lift.

"The minister said that the climb rate could go up to 6000 at that time and it's unusual. Yes it is unusual, is it impossible? No. If you look at the case of Air France 447, there were moments where the climb rate was over 9500. Now we know that when you have those kinds of climb rates at those kinds of altitudes, regardless of your thrust level of the engine, that kind of climb rate is not sustainable. And that will lead to a speed degrada-

tion that will increase your angle of attack to maintain lift. And once you exceed the critical angle of attack, you stop."

Ultimately, government officials are not air crash investigators and the cause of this tragic incident should be based on evidence, facts and aviation expertise.

AIRCRAFT & ENGINE NEWS

AerCap signed 249 aircraft lease transactions in 2014, purchased 33 and sold 83 aircraft

AerCap Holdings N.V. signed 249 aircraft lease transactions in 2014. Furthermore, the company purchased 33 and sold 83 aircraft. This means that AerCap leased, purchased or sold, on average, one aircraft every day. The full year numbers include aircraft transactions of the combined company for the period after closing of the ILFC acquisition on May 14th. Aircraft transactions prior to closing are only included for AerCap on a stand-alone basis. As of December 31st, 2014, AerCap's portfolio consisted of approximately 1,660 aircraft that were either owned, managed, or under contract to purchase.

RRPF completes first installed engine sale and lease-back transaction with dvb Deucalion aviation funds

Rolls-Royce & Partners Finance (RRPF) and DVB Bank SE (DVB) as investment advisor to the Deucalion Aviation Funds have completed a sale and lease-back transaction to finance V2500-A5 engines installed on five A320-200 aircraft. The aircraft were subject to existing leases purchased from Mitsui & Co US and are all on lease in the Americas region. Bobby Janagan, Rolls-Royce & Partners Finance, General Manager, said: "This was the first time that RRPF has completed such a transaction. It shows that we are able to develop new products to support all customers including aircraft investors who are looking to real-

ise the full value of assets approaching the later stages of their economic lifecycle." The transaction successfully leveraged the complimentary expertise and platforms of RRPF and DVB. RRPF is the market leading spare engine lessor of this engine type, with the ability to extract the maximum value from engine assets. DVB has significant experience of financing, investing in and managing aircraft and as advisor to the Deucalion Aviation Funds has a thirteen year track record of arranging and managing highly structured aviation investments.

ATSG, DHL extend agreement through March 2019

Air Transport Services Group has completed a new agreement that extends its support of DHL's air cargo network in the United States through to at least March 2019. Principal elements of the new agreement include:

- Extended dry leases through March 2019 for the 13 Boeing 767 freighters currently leased to DHL for its U.S. air network.
 - New dry leases for two Boeing 767 freighters through March 2019.
 - ABX Air's continued operation of the fifteen Boeing 767 freighters leased to DHL through March 2019.
 - Continued incentives for superior operating performance.
 - Attractive terms for DHL to broaden ATSG's support of its global network operations.
- Joe Hete, President and CEO of ATSG, said the agreement marks the next stage in ATSG's more than 11-year relationship with DHL, under which ATSG provides the aircraft assets and services

that support the majority of the air freight that moves through DHL's U.S. network each day, and provides additional freighter support to DHL elsewhere in the world.

Pratt & Whitney concludes PurePower Geared Turbofan engine

Pratt & Whitney and Kawasaki Heavy Industries met to commemorate the signing of a risk and revenue-sharing collaboration agreement for KHI to provide key hardware modules for Pratt & Whitney's PurePower Geared Turbofan (GTF) engines. Pratt & Whitney currently has 10 worldwide GTF collaboration partners, many of which work across multiple GTF engine variants to be installed on various aircraft platforms for Pratt & Whitney customers. These aircraft programs are directed by Mitsubishi Aircraft Corporation, Bombardier Aerospace, Airbus, Irkut and Embraer. Pursuant to the collaboration agreements, partners will provide hardware modules and assembly and test services with an expected value in excess of US\$49bn over the life of the programs. An example of a successful partnership is Mitsubishi Heavy Industries Aero Engines, which performs engine assembly and test on the PW1200G engine for the MRJ as well as MTU Aero Engines AG (MTU), which performs assembly and test on some of the PW1100G-JM engines for the Airbus A320neo. In addition to the four aforementioned collaboration partners, Pratt & Whitney has agreements with Japanese Aero Engines Corporation, Industria Turbo Propulsores de Spain, Mitsubishi Corporation, Singapore Airlines Engineering Company, IHI Corporation and GE Avio. Now that Pratt & Whitney has completed new collaboration part-

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ner agreements, any further activity will be limited to bringing existing hardware sources into existing or new collaboration agreements.

Thirty-six Fokker aircraft placed in 2014, four new operators

Fokker Services, part of Fokker Technologies, reported that a total of thirty-six Fokker aircraft were placed with four new as well as nine existing Fokker operators during 2014 by their respective aircraft sellers and lessors. These comprise thirteen Fokker 50s, ten Fokker 70s and seven Fokker 100s. In addition, leases were extended on two Fokker 50s, as well as four Fokker 100s.

Dublin-based Lessor Elix acquires three Bombardier Q400 NextGen aircraft

Bombardier Commercial Aircraft welcomed leasing company Elix Aviation Capital Limited (Elix) to the family of Q400 aircraft owners and operators. Elix is taking an assignment of three Q400 NextGen aircraft previously booked by an existing Bombardier customer. Dublin-based Elix was launched in September 2013 with the equity backing of Oaktree Capital Management, a premier global alternative investment firm managing funds in excess of US\$90bn.

GE Capital Aviation Services delivers new leased Airbus A330-300 to KLM Royal Dutch Airlines

GE Capital Aviation Services Limited (GECAS), the commercial aircraft leasing arm of GE, delivered a new leased Airbus A330-300 aircraft to KLM Royal Dutch Airlines, the flag carrier of the Netherlands, as part of the airline's fleet renewal program. The aircraft is part of GECAS' existing order book with Airbus. The KLM Group currently operates a fleet of almost 200 aircraft to more than 200 destinations.

Lessor International Airfinance Corporation places order for up to nine Airbus A330-200 aircraft

International Airfinance Corporation ("IAFC") has signed a firm purchase agreement for five Airbus A330-200 aircraft. The agreement also includes options for an additional four A330-200 aircraft. Based on list price, the contract value for IAFC's transaction covering five Airbus A330-200 aircraft and four options is approximately US\$2bn. Firm Aircraft are already placed

Boeing, Thai Airways International celebrate 75th direct airplane delivery



Thai Airways and Boeing celebrate 75th direct airplane delivery

Photo: Boeing

Boeing and Thai Airways International (THAI) celebrated the Thai flag-carrier's 75th direct delivery of a Boeing airplane. Marking the milestone delivery, Boeing and THAI collaborated to transport 1,000 wool blankets on board THAI's newly delivered 777-300ER (Extended Range). The blankets, donated by Another Joy Foundation, will be distributed by the airline to people in need in Thailand during the colder winter months.

Rolls-Royce unveils Scoot Airlines Trent 1000 engine, made in Singapore



Rolls-Royce unveils Scoot Airlines Trent 1000 engine, made in Singapore
Photo: Rolls-Royce

Rolls-Royce celebrated a milestone at the company's Seletar Campus with the unveiling of a Trent 1000 engine, the first to be made in Singapore for Singapore's very own long-haul budget carrier, Scoot. The Trent 1000, which is fully assembled and tested by a team of 80, will provide power to Scoot's new fleet of 20 Boeing 787 Dreamliner aircraft.

on long term operating leases with a flag carrier. "We are very pleased with this inaugural acquisition for IAFC which constitutes a first step in our development to become a significant player in the Middle-East. We are working to conclude other aircraft acquisitions in order to develop our leasing portfolio" said Moulay Omar Alaoui, President and CEO of International Airfinance Corporation. The Middle East-based lessor, International Airfinance Corporation, is the Manager of Sharia compliant ALIF Fund (US\$5bn targeted size) launched in June 2014 and seeded by Airbus and the Islamic Development Bank.

Russian airline Red Wings takes delivery of Sukhoi Superjet 100

A Sukhoi Superjet 100 aircraft joined the fleet of Russian airline Red Wings. The aircraft, with tail number RA-89021, was ferried from the Delivery Center of Sukhoi Civil Aircraft Company to Domodedovo International Airport — home

base of the airline. In just a couple of days the SSJ100 delivered to Red Wings will be put into operation to start flights from Moscow to Makhachkala and Grozny in the south of Russia. Red Wings is planning to use the SSJ100 to perform flights to other cities of Russia. In accordance with the Sukhoi Superjet 100 aircraft lease agreement signed in October 2014 between Russian airline Red Wings and Sukhoi Civil Aircraft Company, the leasing period for three SSJ100s will be for three years with possible extensions. The aircraft is being delivered to Red Wings in a 93-seat two-class cabin configuration.

Summit Aviation Group adds second AVRO RJ85 aircraft

Summit Air announced the purchase of a second AVRO RJ85 jet to meet market demand for remote destination crew movements and ACMI (aircraft, crew maintenance and insurance) contracts. Summit Air is part of the Leducor Group

AIRCRAFT & ENGINE NEWS

of Companies and operates a fleet of helicopters and fixed wing aircraft throughout Alberta, British Columbia, Northwest and Yukon Territories.

Alaska Air Group purchases two more Bombardier Q400 NextGen aircraft

Seattle-based Horizon Air has converted two of seven previously acquired Q400 NextGen aircraft options to firm orders. The airline retains its options on another five Q400 NextGen aircraft. Horizon Air and its sister carrier, Alaska Airlines are subsidiaries of Alaska Air Group. Based on the list price of the Q400 NextGen aircraft, the purchase agreement is valued at approximately US\$70.1m.

MRO & PRODUCTION NEWS

PAS Technologies announces divestiture of Cork, Ireland facility

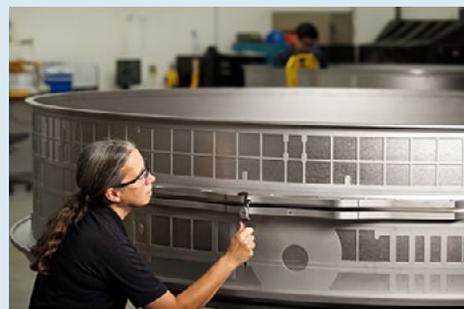
PAS Technologies announced that the company has successfully completed the sale of its Cork, Ireland operation to Knox Capital Holdings (“Knox Capital”). The acquisition by Knox Capital, along with a majority recapitalization of TRS Services has resulted in the formation of a new company known as TRS Global. David Theis, former Senior Vice President of Sales at PAS, was involved in the transaction, and he now leads TRS Global as Chief Executive Officer. PAS Technologies specializes in providing cost-effective original equipment manufacturing (OEM) and maintenance, repair, and overhaul (MRO) products, services and solutions for the commercial and military aerospace, industrial gas turbine (IGT), and oil and gas (O&G) markets. The former PAS Ireland facility team, led by General Manager Gerard Hurley, will remain in place. PAS Ireland will be renamed Turbine Repair Services Global Ireland, Ltd., doing business as TRS Global Ireland.

Monarch Aircraft Engineering awarded Boeing GoldCare approval at Birmingham

Monarch Aircraft Engineering released that its 110,000 ft² state-of-the-art aircraft maintenance facility at Birmingham Airport is now Boeing GoldCare approved after completing its supplier audit. This latest achievement means that all Monarch Aircraft Engineering base maintenance facilities in the UK (Birmingham, Manchester and Luton) are Boeing GoldCare approved along with its line maintenance facility at Gatwick. In partnership with Boeing, Monarch Aircraft Engineering will provide base maintenance services to support Boeing 787 Dreamliner airplanes as part of the Boeing GoldCare programme.

GKN Aerospace signs agreement with Rolls-Royce for Trent 1000 components

GKN Aerospace has agreed a long-term agreement with Rolls-Royce to supply components for the latest version of the Trent 1000 engine – a capability enhancement of the existing Trent 1000 engine for the Boeing 787. This LTA is estimated to be worth more than US\$200m over the life of the agreement. The agreement gives GKN Aerospace responsibility for the supply of the outer guide vane (OGV) mount ring and the rear fan case for the engine. Manufacture is taking place at the company’s sites in Newington, Connecticut, El Cajon, California and Mexicali, Mexico from where delivery of initial development units is already taking place. When in full production GKN Aerospace expects to supply up to 150 engine sets annually.



GKN Aerospace signs long-term agreement with Rolls-Royce for Trent 1000 components, including the rear fan case
Photo: GKN Aerospace

When in full production GKN Aerospace expects to supply up to 150 engine sets annually.

IAI signs agreement with Air Canada for B787 line maintenance



Air Canada’s B787 undergoing line maintenance works at Ben Gurion International Airport
Photo: IAI

international Airport through IAI Bedek’s extensive and proven capabilities in this field.”

Israel Aerospace Industries’ (IAI) Bedek Aviation Group signed an agreement with Air Canada to fulfill the airline’s B787 line maintenance requirements at Ben Gurion International Airport in Tel-Aviv. Alan Butterfield, Air Canada’s Vice President, Maintenance and Engineering, stated: “We are very pleased with the line maintenance work performed and the excellent working relationship that has developed with IAI’s Bedek Aviation Group. This contract assures Air Canada of a quality solution for our B787 line maintenance needs at Ben Gurion International Airport through IAI Bedek’s extensive and proven capabilities in this field.”

AMES completes Split-Scimitar Winglet modification for Canadian operator Sunwing Airlines

Airborne Maintenance & Engineering Services (AMES) completed its first Split-Scimitar Winglet installation for Sunwing Airlines on a B737-800 aircraft. Sunwing Airlines inducted the aircraft into AMES’ Wilmington facility in mid-December for the Aviation Partners Boeing (APB) modification and other maintenance bridging inspections. The work was finished on time and the aircraft redelivered prior to year-end.

Lufthansa Technik receives Airbus A350 maintenance approval

In time for the launch of commercial flight operations of the Airbus A350 to Frankfurt, Lufthansa Technik has received approval of the European airworthiness authority EASA (European Aviation Safety Agency) as Maintenance Organization for the new aircraft type (Part 145 approval). The maintenance, repair and overhaul (MRO) provider now offers routine maintenance services in Frank-

furt. For some time now, Lufthansa Technik has been preparing meticulously for technical support of the Airbus A350. The company’s Frankfurt and Munich facilities will be able to provide airlines with an extensive package of maintenance and repair services, including troubleshooting and the elimination of technical defects, software management, and both the planned and unplanned replacement of components, engines, and auxiliary power units (APU), in addition to routine checks. Lufthansa Technik will also supply spare parts as needed at both hubs. As part of its global network, Lufthansa Technik is currently setting up worldwide material supply for the A350 with component pool sites in Asia and Europe. Future operators of the A350 can already benefit from initial component maintenance capacities for this aircraft at Lufthansa Technik’s workshops in Hamburg, and these capacities will be expanded continuously with the growth of A350 fleets around the world. In addition, Lufthansa Technik is preparing the storage and provision of Rolls-Royce Trent XWB spare engines and Honeywell HGT1700 APUs in and from Frankfurt to ensure fast help for A350 operators in the event of planned or unplanned engine or APU replacements.

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Lufthansa Technik and Azul Linhas Aéreas Brasileiras sign comprehensive long-term component supply contract

Germany-based maintenance, repair and overhaul (MRO) provider Lufthansa Technik and the Brazilian low fare airline Azul Linhas Aéreas Brasileiras have signed a comprehensive long-term component supply contract for the airline's Airbus A330 fleet of seven A330-200 aircraft. The contract will run until end of 2019. Azul, Brazil's largest airline by number of cities served, commemorated its first international flight in December 2014, using its newly acquired A330 fleet. The Total Component Support TCS agreement covers component maintenance, repair, overhaul and engineering services, as well as pooling and Home Base Lease at the airline's home base in Campinas/Viracopos. The component supply will be realized via the Lufthansa Technik component network in the United States and Europe.

SR Technics and Germania enter exclusive agreement for engine services

SR Technics and Germania Fluggesellschaft GmbH have entered into an exclusive long-term agreement for engine services. Valued at US\$180m, the agreement is effective immediately. It covers engine services for Germania's fleet of Airbus A319 and A321, as well as Boeing 737-700 planes. The engines involved are CFM56 series -5B and -7B produced by Snecma (Safran) and GE, the world's leading supplier of commercial aircraft engines. Under the terms of the contract, the engine services will be carried out at SR Technics' facilities in Zurich, where it has extensive CFM56 series maintenance, repair and overhaul experience and know-how. Furthermore, SR Technics and Scandinavian Airlines (SAS) have signed a contract for the completion of seven cabin modifications on the airline's Airbus A330 and A340 aircraft. The US\$15m one-year contract covers all the design engineering

and certification, material provisioning as well as installation work. The modifications involve the replacement of Business, Premium Economy, and Economy class seats. In addition, the In-flight Entertainment (IFE) and in-seat power systems will be replaced. The new IFE system Zodiac Inflight Innovations' RAVE™ solution in combination with Panasonic Avionics' Global Communication Suite (GCS) enables wireless communication in the cabin. Furthermore, new galleys and stowage will be installed along with moodlight cabin-dim lights. While the modification work is being carried out, a heavy maintenance check (C-check) and repainting of one of the aircraft will also be performed. Carrying out such tasks simultaneously cuts the time the aircraft spends on the ground, which reduces SAS's costs from having it out of service. All the work will be carried out at SR Technics' Centre of Excellence in Zurich, with completion planned for fall 2015.

EOS and MTU form strategic partnership for quality control in metal-based Additive Manufacturing

EOS, the global technology and quality leader for high-end Additive Manufacturing (AM) solutions, and MTU Aero Engines, Germany's leading engine manufacturer, are closely cooperating with a view to quality assurance for metal engine components using Additive Manufacturing. The two companies have now signed a framework agreement for the joint strategic development of their technology. The first result of these joint endeavours is the optical tomography (OT) developed by MTU, an ideal and powerful complement to the modular EOS monitoring portfolio: in addition to several sensors that monitor the general system status, the camera-based OT technology controls the exposure process and melting characteristics of the material at all times, to ensure the optimum coating and exposure quality. Dr. Adrian Keppler, Head of Sales and Marketing (CMO) at EOS stresses: "MTU and EOS have been working intensively for several years, and this collaboration is now about to develop into an even closer, partner-based technological cooperation, centred on the above

quality assurance tool. The OT solution enables us to perform an even more holistic quality control of the metal additive manufacturing process – layer by layer and part by part. A very large proportion of the quality control process that previously took place downstream can now be performed during the manufacturing process, with a considerable saving in quality assurance costs. This also allows us to satisfy a central customer requirement in the area of serial production."

MTU Maintenance signs exclusive CFM56-7 maintenance agreement with Solaseed Air

MTU Maintenance, one of the leading engine MRO providers worldwide, has signed an exclusive maintenance agreement with the Japanese low-cost carrier Solaseed Air, which covers all 24 CFM56-7B and -7BE engines powering the airline's fleet of 12 Boeing 737-800 aircraft. The contract will run for twelve years and has a value of about €200m (US\$260m). In addition to engine maintenance, MTU Maintenance will provide Solaseed Air with spare engine and on-site support. The engines will be overhauled at MTU Maintenance's Asian location in Zhuhai, China. For MTU Maintenance, this is the largest agreement from a Japanese customer since the company entered the Japanese market in 2010.

StandardAero signs five year contract to provide PW126 engine MRO Services for West Atlantic Cargo Airlines fleet

StandardAero signed an exclusive five year contract, with a five year renewal option on January 1st, 2015, to maintain, repair and overhaul West Atlantic Cargo Airline's PW126 engines, modules, components and parts. The agreement will cover West Atlantic's owned fleet of 41 BAE ATP aircraft powered by PW126 engines serving the cargo mail and express industries. Services will be provided predominantly at StandardAero's Tilburg, Netherlands European Service Center (ESC). Additional



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MRO & PRODUCTION NEWS

services will also be available at StandardAero's Winnipeg, Canada facility as well as on site at West Atlantic's Malmo, Sweden and Coventry, United Kingdom locations. The agreement also includes field service provided by StandardAero technicians. Headquartered in Gothenburg, Sweden, West Atlantic is one of Europe's largest cargo airlines and the most experienced provider of unique, integrated ground to air logistics for the mail industry.

Airbus focus on "thermoplastic" composite materials

While the use of carbon-fibre reinforced plastic (CFRP) has become a mainstay in aircraft production, many are unaware that there is more than one type that can be leveraged. In its continuing role as an innovation and environmental leader, Airbus is working to achieve maximum benefit from "thermoplastic" CFRP material – which holds several key advantages over the "thermoset"-type CFRP that is more commonly used across the air transport sector, including its 100% recyclability. CFRP materials – both thermoplastic and thermoset – are created when thousands of carbon filament threads are bundled together before being combined with a matrix to form a "composite material." A ply or layer is made to the specified size and orientation, and then more layers are added until the piece has the necessary properties to support the loads it will carry. The resulting material is composed of approximately 60 per cent fibres and 40% resin. Jean-Florient Lamèthe, an engineer from Airbus' Materials and Processes team, explained that thermoplastic CFRP has excellent fatigue and damage tolerance properties, along with shorter manufacturing cycles and lower moisture absorption. It can even be welded, which cannot be done with thermoset-type CFRP. The key difference between thermoplastic and thermoset CFRP, according to Lamèthe, is what happens during their individual curing processes. "When you put 'raw' thermoset material into an autoclave and 'cook' it, there's a chemical reaction – the actual chemical composition of the material changes," he said. "With thermoplastic composites, you can melt a finished piece and reshape it and it still has the same chemical composition."

FINANCIAL NEWS

ATR reports record year in terms of sales, deliveries, turnover and backlog

The year 2014 ended with ATR beating last year's records in sales, deliveries, turnover and backlog. The aircraft manufacturer's sales increased to 160 aircraft, along with 120 options, exceeding the previous 2011 record (157 firm sales and 79 options). ATR also achieved a record turnover in 2014, reaching US\$1.8bn dollars (US\$1.63bn in 2013), and

Air Astana delivers record US\$97.7m operating profit in 2014

Air Astana, Kazakhstan's flag carrier, has reported an operating profit of US\$97.7m in 2014, an increase of 35% over 2013 and the highest in the company's 13 year history. Net profit fell by 62% to US\$19.3m owing to a one-off revaluation of external debt of US\$49m caused by the devaluation of the Kazakh tengue by 19% in February. Passenger traffic rose by 3% to 3.8 million, whilst revenue fell by 3% to US\$932.9m. Air Astana is a joint venture between Kazakhstan's national wealth fund Samruk Kazyna and BAE Systems, with respective shares of 51% and 49%.



Air Astana delivers US\$97.7m operating profit in 2014
Photo: Air Astana

increased its deliveries to 83 aircraft (compared with 74 in 2013). As a result of the extraordinary commercial year experienced by ATR, 2014 ended with 280 aircraft in its backlog, an end-of-year level never reached until now. In 2014, ATR signed the largest cumulative order in its history, with a contract that brings the number of firm aircraft orders from the Indonesian airline, Lion Air, to one hundred. ATR also reached a major milestone in its history with the signing of the 1000th order for the ATR 72, which will fly the flag of Airlines PNG, the Papua New Guinea airline. The 160 firm sales and 120 options represent nearly half the total sales of regional aircraft of below 90-seat capacity for the year. It reinforces the position of the ATR-600 as the regional aircraft of choice of airlines and leasing companies across the world. For the turboprop aircraft segment, these sales account for 80% of all the orders for the year.

Bombardier pauses Learjet 85 program and revises 2014 guidance

Bombardier announced the pause of its Learjet 85 business aircraft program. The pause is due to weak demand for the Learjet 85 aircraft and follows a downward revision of Bombardier's business aircraft market forecast. This reflects the continued weakness of the light aircraft category since the economic downturn. As a result, the Company will record a pre-tax special charge in the fourth quarter of 2014 of approximately US\$1.4bn mainly related to the impairment of the Learjet 85 development costs. Additionally, Bombardier will reduce its workforce by approximately 1,000 employees at its sites in Querétaro, Mexico, and Wichita, United States. A severance provision of approximately US\$25 million will be recorded as a special item during the first quarter of 2015. Bombardier's Wichita and Querétaro sites remain critical facilities in key markets. Wichita is a multifaceted facility and is the location of final assembly activities for the Learjet 70 and Learjet 75 aircraft, the Bombardier Flight Test Center as well as a Service Center. In addition to contributing to many of Bombardier's aircraft programs, the Querétaro site recently completed its Global

7000/8000 aft fuselage manufacturing building. Furthermore, following a review of preliminary results compiled by Bombardier for the fiscal year ended December 31st, 2014, it has become clear that certain financial guidance previously provided will not be met. Based on these preliminary results, Bombardier is updating its guidance for 2014. Earnings before financing expenses, financing income and income taxes (EBIT) before special items at Aerospace (BA) is expected to be approximately 4% compared with a previous guidance of 5%. The variation is mainly due to increased provisions for credit and residual value guarantees, pricing pressure on new aircraft sold, as well as a decrease in fair value of used aircraft. EBIT before special items at Transportation (BT) is expected to be approximately 5% compared to a previous guidance of 6%. This variation is mainly due to revised escalation assumptions for some contracts which impacted estimated future revenues. Cash flow from operating activities at Aerospace is expected to be approximately US\$800m, while net additions to property, plant and equipment (PP&E) and intangible assets are expected to be approximately US\$1.8bn, compared with a previous guidance for cash flow from operating activities between US\$1.2bn and US\$1.6bn and net additions to PP&E and intangible assets between US\$1.6bn and US\$1.9bn.

Southwest Airlines reports fourth quarter and record annual profit

Southwest Airlines' fourth quarter 2014 total operating revenues increased 4.5% to US\$4.6bn, while operating unit revenues increased 2.0%, on a 2.4% increase in available seat miles, all as compared with fourth quarter 2013. The growth in operating revenues was largely driven by strong fourth quarter 2014 passenger revenues. Operating income in fourth quarter 2014 was US\$621m, compared with US\$386m in fourth quarter 2013, resulting in a 13.4% operating margin. Excluding special items, operating income was US\$679m in fourth quarter 2014, compared with US\$418m in fourth quarter 2013, a 62.4% increase year-over-year. For 2014, total operating revenues increased

FINANCIAL NEWS

5.1% to US\$18.6bn, and total operating expenses were US\$16.4bn, resulting in operating income of US\$2.2bn, compared with US\$1.3bn in operating income for 2013.

Delta Air Lines reported financial results for the December 2014 quarter

Delta's pre-tax income for the December 2014 quarter was US\$1.0bn, excluding special items, an increase of US\$474m over the December 2013 quarter on a similar basis. Delta's net income for the December 2014 quarter was US\$649m and its operating margin was 12.6%, excluding special items. For the full year 2014, Delta's pre-tax income, excluding special items, was US\$4.5bn, a US\$1.9bn increase over 2013. Delta's net income for the year was US\$2.8bn with an operating margin of 13.1%, excluding special items. On a GAAP basis including special items, Delta's December quarter pre-tax loss was US\$1.1bn, operating margin was -8.6% and net loss was US\$712m. On a GAAP basis including special items, Delta's 2014 pre-tax income was US\$1.1bn, operating margin was 5.5% and net income was US\$659m.

Novaria Group acquires assets of historical manufacturer of aircraft and industrial fasteners, John Hassall

Fort Worth-based Novaria Group announced the acquisition of substantially all the assets of John Hassall, a provider of aircraft engine fasteners, bolts, blade locks and other flight-critical hardware, located in Long Island, N.Y. The company also manufactures a diverse set of products for use in select automotive and industrial applications. The company holds a variety of key customer quality approvals as well as current AS9100C and Nadcap certifications. Novaria has established a new entity, John Hassall LLC, which operates the majority of the assets of John Hassall, Inc., services existing and legacy customers and will continue doing business as John Hassall. Novaria is taking immediate steps to improve operations and expand the capabilities of the business. John Hassall specializes in the cold heading, hot forming, thread rolling, heat treatment, and metallurgical testing of complex and specialty fasteners used in the hot section of aircraft engines. The company's roots date back to

1850 when it obtained the first U.S. patent for an automated fastener manufacturing machine, currently housed in the Smithsonian museum.

HEICO Corporation makes important international acquisition

HEICO Corporation reported that its Flight Support Group completed the acquisition of 80% of the equity of Aeroworks International. Financial terms were not disclosed, but HEICO stated that it expects the acquisition to be accretive to its earnings within the first year after the closing. Aeroworks is a manufacturer of both composite and metal parts used primarily in aircraft interior applications, including seating, galleys, lavatories, doors, and overhead bins. Its products are sold mostly to commercial aircraft interior primes for use in commercial aircraft retrofit, interior replacement and new aircraft production. Founded in 2000, Aeroworks is headquartered in the Netherlands with its sales, administrative, and manufacturing operations; Aeroworks also maintains significant additional production facilities in Thailand and Laos. Aeroworks' active leadership team will remain in place and HEICO does not anticipate any changes with respect to Aeroworks' team members or customer relationships. Its significant international manufacturing footprint marks an important expansion of HEICO's production flexibility. Including Aeroworks, HEICO subsidiaries now operate production or engineering facilities in 8 countries in North America, Europe and Asia.

Alaska Air Group reports record adjusted fourth quarter 2014

Alaska Air Group reported fourth quarter 2014 GAAP net income of US\$148m compared to GAAP net income of US\$78m in 2013. Excluding mark-to-market fuel hedge gains of US\$6m (US\$4m after tax) a benefit related to the curtailment of certain postretirement benefit plans and a one-time gain associated with the settlement of a legal matter for US\$30m in aggregate (US\$19m after tax), the company reported record fourth quarter 2014 net income of US\$125m, compared to net income, excluding mark-to-market fuel hedge gains, of US\$77m in 2013. The company reported full-year 2014 GAAP net income of US\$605m, compared to US\$508m in the prior year. The company reported record net income of US\$571m for 2014, compared to net income of US\$383m 2013.

United reports full-year 2014 profit of US\$1.97bn

United Airlines (UAL) reported full-year 2014 net income of US\$1.97bn, an increase of 89% year-over-year, or \$5.06 per diluted share, excluding US\$834 million of special items. Including special items, UAL reported full-year net income of US\$1.13bn, or \$2.93 per diluted share. UAL reported fourth-quarter 2014 net income of US\$461m, an increase of 86% year-over-year, or \$1.20 per diluted share, excluding US\$433m of special items. Including special items, UAL reported fourth-quarter 2014 net income of US\$28m, or \$0.07 per diluted share.

MILITARY AND DEFENCE

AAR awarded 10-year Search & Rescue contract in the Falkland Islands by UK MOD

AAR reported that its Airlift division has been awarded a contract by the United Kingdom Ministry of Defence for Search & Rescue (SAR) and Support Helicopter services in the Falkland Islands. The contract is valued at approximately US\$275m (approximately £180m). AAR Airlift, together with British International Helicopters (BIH) and Air Rescue Systems (ARS), will provide a combined SAR and Support Helicopter service to the British Forces South Atlantic Islands (BFSAL) operations. The program will include AgustaWestland AW-189 SAR helicopters, Sikorsky S-61 support helicopters, flight operations, maintenance, logistics and facilities support at the Mount Pleasant Complex in the Falkland Islands and surrounding maritime region.

Fokker and Lockheed sign MOU for additional F-35 wing component order

Fokker signed an agreement on January 14th, for the delivery of wing components (Flaperons & Outboard Leading Edge Flaps) on the next batches of Lockheed Martin's F-35 Lightning II Joint Strike Fighter. Under this agreement, Fokker will be responsible for the manufacturing of the Flaperons & OLEF for the next batches of F-35 aircraft in low rate initial production lot 9-10. Spread over the period from 2015 to the end of 2017 this selection represents an additional value of tens of millions of US\$ and secures employment for 100 highly qualified specialists at Fokker in Hoogeveen for the coming years. The F-35's Flaperons are 3 meter long flaps on the wing trailing edges and the OLEF are flaps on the wing leading edges, both vi-

MAGELLAN AVIATION GROUP

North America +1 704 504 9204
 salesusa@magellangroup.net

Europe +353 61 474800
 sales@magellangroup.net

magellangroup.net

FIG. 1 Building on where we came from to help you move forward.

MILITARY AND DEFENCE

tal for the controllability of the aircraft. The unique design is based on the low maintenance combination of composite and titanium with a better resistance to fatigue and corrosion. The design of the Flaperons & OLEF contributes to improved aircraft performance by saving weight and increasing strength at the same time. Fokker has been manufacturing the Flaperons & OLEF since Low Rate Initial Production Lot 3 for the F-35 aircraft. Fokker also produced more than 2000 sets of flaperons for the Lockheed Martin F-16 aircraft type for many years. Production of the F-16 components started in 1978 and is still going on today.

OTHER NEWS

Continuing with its aviation technology leadership in Africa, **Ethiopian**, has acquired the first ever B787 Dreamliner full flight simulator in Africa. The installation and build-up of the full flight Simulator is in progress at Ethiopian's main Hub in Addis Ababa and the first pilot training in the B787 flight simulator will start in March, 2015. Ethiopian was the first airline in the world outside Japan to receive and operate the B787 Dreamliner in August 2012. Currently, the airline is the largest operator of the B787 in Africa. With the installation of the B787 flight simulator, Ethiopian will be the first in Africa to give full flight simulator training for pilots on the B787 aircraft

American Airlines will begin operating its new daily service between Dallas/Fort Worth International Airport (DFW) and Beijing Capital International Airport (PEK) on May 7th, marking the airline's sixth daily flight to Asia from DFW and the only nonstop flight connecting DFW and Beijing. With the addition of this service, American will offer 11 routes between the U.S. and Asia.

EMRISE CORPORATION, a multi-national manufacturer of defense and aerospace electronic devices and communications equipment, has received an US\$8.4m production order for electronic device subsystems for In-Flight Entertainment and Connectivity (IFE&C) systems to be installed in commercial aircraft. The production order, which is for an existing, established product, is expected to begin shipping in the fourth quarter of 2015 with shipments expected to be

BAE Systems awarded £112m contract by UK's Ministry of Defence

BAE Systems has been awarded a £112m contract by the UK's Ministry of Defence (MOD) to extend the Typhoon Availability Service (TAS) for the in-service support of the Royal Air Force's (RAF) Typhoon fleet by 15 months. The Company will continue to work alongside the RAF in meeting Typhoon's operational requirements until early 2016. The extension will help to sustain around 650 jobs for BAE Systems' personnel based at RAF Coningsby and

RAF Lossiemouth supporting the Typhoon fleet. Under the contract, BAE Systems is responsible for delivering Typhoon aircrew and ground crew training, maintenance of the aircraft, along with providing technical support and managing spares, repairs and logistics. Nigel Davey, BAE Systems Director for Military Air Support said: "This agreement is a continuation of a strong partnership with the MOD and the RAF to support its Typhoon fleet."



BAE Systems awarded contract worth £112m by UK's Ministry of Defence
Photo: BAE Systems

completed by the fourth quarter of 2017. EMRISE Chairman and Chief Executive Officer Carmine T. Oliva said, "We believe the order is not only indicative of the strength of our IFE&C business, but is another example of the continued expansion of the global IFE&C market opportunity for multi-year build-out programs for commercial airlines."

The strategy for the newly revamped **Alitalia** was unveiled on January 20th, with an unequivocal commitment by the new executive team and strategic investors to reinvent the airline. Alitalia will introduce new routes, new product and service standards, a new cost management strategy and new branding, as the foundations to build a premium global airline representing the best of Italy. The new Alitalia commenced operations on January 1st, 2015, following the completion of equity investments by **Ethihad Airways** and Alitalia's existing shareholders. The new company's Board meeting on January 19th ratified the business strategy, which was outlined by Luca di Montezemolo, Chairman of Alitalia, Silvano Cassano, Chief Executive Officer of Alitalia, and James Hogan, President and Chief Executive Officer of Etihad Aviation Group and Vice Chairman of Alitalia. Luca di Montezemolo said: "The energies, passion and expertise I have experienced at

Alitalia in recent weeks do not leave any doubt that the airline we're unveiling today will become once again a premium Italian airline recognised worldwide. This is why I believe the people in Alitalia are a pillar of the history we're about to write. Our priority is to put the customer at the centre of everything we do. And to do that, we will change many things, starting with the way we work. We need to work as one united team to achieve this great common goal. The revitalised Alitalia we envision and have started building, will be an asset to this country, and a driver to support the growth of our tourism and our business." James Hogan said Alitalia's future will rely on major change throughout the organisation. "In a market still beset by the continuing Eurozone crisis, anything other than rapid, decisive change is simply not an option. This is the right strategy, with the right management team to lead it. But there should be no doubts at all: we have made a commercial investment that must deliver a commercial return. We've invested in the new Alitalia because we believe it can flourish again. It will only succeed if there is 100 per cent support from everyone. The coming months and next few years will not be easy, but if everyone pulls together as one team, Alitalia can grow again." Mr Hogan said that Alitalia's major investors had set a clear deadline for the airline to deliver profitability by 2017.

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INDUSTRY PEOPLE

- Aircraft cabin lighting specialists, STG Aerospace, reported that **Richard Ilett** has joined the company in the new role of Chief Operating Officer (COO). Since undertaking a mechanical engineering graduate apprenticeship with British Aircraft Corporation and Leicester University, Richard has spent most of his career in the aerospace industry. During his 17 years with British Aerospace, he worked initially in Plant Engineering and Site Development, and as Sub Contract Manager, was responsible for the sourcing and delivery of £25m p.a. worth of aircraft components in the international supply chain. This was followed by a period of three years in charge of the Fitting and Hydraulic Operating Centre, managing 230 operators and 50 indirect staff involved in manufacturing engineering, production control and quality inspection.

- AJW Aviation has appointed industry specialist, **Shane Tingey**, to the newly defined position of Sales Director. His role is to develop pro-active sales strategies for contracted power-by-the-hour, ad-hoc spares sales, component repairs and engine management divisions, as well as support for AJW's dynamic customer relations programme worldwide. His primary and initial focus will be AJW Aviation's stock sales, brokered sales and exchanges across AJW's diverse customer base from small start-ups, to national carriers. He is responsible for the Field Sales teams in all markets.

- Nordic Aviation Capital (NAC) announced the appointment of **Rod Sheridan** as Vice Chairman of the Board of Directors. Rod brings nearly three decades of aviation experience to NAC as a long-time executive of Bombardier Aerospace (where he was most recently Vice President of Sales and Asset Management) and its predecessor companies de Havilland and Boeing Canada. In the 20 years supporting Bombardier Regional Aircraft's trading group he concluded over 1,600 acquisitions, sales and leases for the manufacturer and its financiers. In tackling the secondary market for the 50-seat CRJ fleets, Rod and the team facilitated a number of ventures designed to develop new operators outside North America and Europe. In addition to managing the Asset Management team, for the past six years he has led business development in Russia and the CIS for Bombardier and Lessor Sales. Prior to announcing his retirement from Bombardier in October of 2014, Rod directed the sale of over 70 Bombardier C Series aircraft to operating lessors.

Recommended Events



Routes Americas
February 01, 2015 – February 03, 2015
The Sheraton , Downtown, Denver

AIME – Aircraft Interiors Middle East
February 02, 2015 – February 03, 2015
Dubai World Trade Centre, Dubai, United Arab Emirates

MRO Middle East – Maintenance, Repair & Overhaul
February 02, 2015 – February 03, 2015
Dubai World Trade Centre, Dubai, United Arab Emirates

Operating Lease Masterclass (Advanced) 2015
Park Plaza, County Hall London
March 23, 2015 – March 24, 2015

Routes Europe
Aberdeen Exhibition & Conference Centre
April 12, 2015 – April 14, 2015

MRO Americas 2015
Miami Beach Convention Center
April 14, 2015 – April 16, 2015

[Click here for more aviation events](#)

- American Airlines promoted **Vasu Raja** to Vice President, International Revenue Management. In this new role, Raja will lead a high-performing team responsible for overseeing all revenue generated from the company's international business. His responsibilities will include overseeing the Atlantic joint business alliance with British Airways, Iberia and Finnair, as well as the airline's Pacific joint venture with Japan Airlines.

- Boeing veteran **Mike Emmelhainz** is returning to Oklahoma City to lead the company's operations there while **Bryan Scott** succeeds Emmelhainz as head of Boeing's San Antonio activities. The moves are effective at the end of January. Both executives will report to **Scott Strode**, Vice President and General Manager of Aircraft Modernization & Sustainment in the company's Global Services & Support business. The changes are prompted by the retirement of **Steve Goo**, whose 38-year Boeing career culminated with his term in Oklahoma City.

- Following the recent strategic Sales department restructure, Avtrade announced the appointment of two new Regional Sales Directors; **James Cristal** and **Sudi Patel**. As part of their new roles, James and Sudi will be jointly responsible for heading up the company's sales operations in Europe. In addition, Sudi has responsibility for North Africa, whilst James Cristal will also lead development of Avtrade's sales operations in the Americas.

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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 Falk
jenny.falk@avitrader.com
Tel: + 49 (0) 8761 346 007

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

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-112	Doric	CFM56-5B6/3	3589	2008	Mar 2015	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49.69.24755942
A319-112	Doric	CFM56-5B6/3	3818	2009	Mar 2015	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49.69.24755942
A319-133	Amentum Capital	V2527M-A5	3705	2008	Now	Sale / Lease	Stephanie Sanford	marketing@amentum-capital.com	+353 16310333
A320-200	ORIX Aviation	CFM56-5B6/3	3831	2009	Q2/2015	Lease	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
A320-200	ORIX Aviation	V2527-A5	2651	2006	Q1/2016	Lease	Daniel Cunningham	daniel.cunningham@orix.ie	+353 871774524
A320-200	GA Telesis	V2500-A1	53	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
A320-200	GA Telesis	V2500-A1	54	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
A320-200	GA Telesis	V2500-A1	64	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
A321	GA Telesis	CFM56-5B2/P	434		Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
A321-100	GA Telesis	CFM56-5B2	494	1993	Q1/2015	Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
A321-100	GA Telesis	CFM56-5B2	515	1995	Q1/2015	Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
A330-223	Amentum Capital	PW4168A	970	2008	Now	Sale / Lease	Stephanie Sanford	marketing@amentum-capital.com	+353 16310333
A330-223	Amentum Capital	PW4168A	943	2008	Mar 2015	Sale / Lease	Stephanie Sanford	marketing@amentum-capital.com	+353 16310333
A330-223	Amentum Capital	PW4168A	962	2008	Mar 2015	Sale / Lease	Stephanie Sanford	marketing@amentum-capital.com	+353 16310333
A330-223	Amentum Capital	PW4168A	979	2009	Oct 2015	Sale / Lease	Stephanie Sanford	marketing@amentum-capital.com	+353 16310333
A340-200	GA Telesis	CFM56-5C3/F	14			Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
A340-200	GA Telesis	CFM56-5C3/F	22			Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B737-300	Phoenix Aer Capital	CFM56-3	24532		Now	Sale	Bob Gallagher	r.gallagher@aircraftsystemsgroup.com	+1 727-376-0292
B737-300	Phoenix Aer Capital	CFM56-3	24666		Now	Sale	Bob Gallagher	r.gallagher@aircraftsystemsgroup.com	+1 727-376-0292
B737-300F	ORIX Aviation	CFM56-3B2	24711	1990	Q1/2015	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 877760451
B737-400	Wing Capital	CFM56-3C1	26066		Jan 2015	Sale / Lease	Ben Jacques	bjacques@wngcapital.com	+353 766025252
B737-400	World Star Aviation Services	CFM56-3C1	24706	1991	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-400	World Star Aviation Services	CFM56-3C1	28550	1997	Jan 2015	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-400	Safair Operations	Combi	26961		Mar15 ACMI/Wet lease/Sale		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000
B737-500	World Star Aviation Services	CFM56-3B1	26297	1994	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B737-800	ORIX Aviation	CFM56-7B24	34182	2006	Q4/2015	Lease	Cian Coakley	cian.coakley@orix.ie	+353 877760451
B737-800 (5)	Wing Capital	CFM56-7B26	various		7-12/2015	Lease	Ben Jacques	bjacques@wngcapital.com	+353 766025252
B747-400	GA Telesis	PW4056	28754	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B747-400	GA Telesis	airframe only	24993	1991	Q1/2015	Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B747-400	GA Telesis	airframe only	27093	1992	Q1/2015	Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
B747-400ERF	Amentum Capital	CF6-80C2B5F	37303	2009	Now	Sale / Lease	Stephanie Sanford	marketing@amentum-capital.com	+353 16310333
B747-438	Jet Midwest Inc.	RB211-524G	25544	1992	Now	Sale / Lease	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
B747-438	Jet Midwest Inc.	RB211-524G	25546	1992	Now	Sale / Lease	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
B747-438	Jet Midwest Inc.	RB211-524G	25151	1991	Now	Sale / Lease	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
B757-200	World Star Aviation Services	RB211-535-E4	24544	1990	Now	Sale / Lease	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
B757-223	Jet Midwest Inc.	RB211-535E4			Now	Sale / Lease	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
B767-200ER	Castlelake	CF6-80C2B2	23900	1987	Feb 2015	Sale / Lease	Joe Giarritano	joe.giarritano@castlelake.com	+1 612 851 3032
B767-200ER	Castlelake	CF6-80C2B2	23901	1987	Q1/Q2	Sale / Lease	Joe Giarritano	joe.giarritano@castlelake.com	+1 612 851 3032
B767-200ER	Castlelake	CF6-80C2B2	23902	1988	Q1/Q2	Sale / Lease	Joe Giarritano	joe.giarritano@castlelake.com	+1 612 851 3032
B767-200ER	Castlelake	CF6-80C2B2	26847	1993	Q1/Q2	Sale / Lease	Joe Giarritano	joe.giarritano@castlelake.com	+1 612 851 3032
B767-200ER	Castlelake	CF6-80C2B2	24764	1990	Q1/Q2	Sale / Lease	Joe Giarritano	joe.giarritano@castlelake.com	+1 612 851 3032
B767-200ER	Castlelake	CF6-80C2B2	24765	1990	Q1/Q2	Sale / Lease	Joe Giarritano	joe.giarritano@castlelake.com	+1 612 851 3032
B767-222	Jet Asia Airways Co. Ltd.	JT9D-7R4D	21868		Now	ACMI, Wet L.	Kevin Lee	klee@flyjetasia.com	+1 310 944 0327
B767-246	Jet Asia Airways Co. Ltd.	JT9D-7R4D	23214		Now	ACMI, Wet L.	Kevin Lee	klee@flyjetasia.com	+1 310 944 0327
B767-300ER	ORIX Aviation	PW4060	25285		Q1/2015	Lease	Cian Coakley	cian.coakley@orix.ie	+353 877760451
DC10-30F	Bristol Associates	CF6-50C2	47925	1974	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
DC10-30F	Bristol Associates	CF6-50C2	47929	1975	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
L100-30	Safair Operations	501-D22			Now - Wet Lease / ACMI		C. Schoonderwoerd	corneliss@safair.co.za	+27 11 928 0000

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
MD82	GA Telesis	JT8D-200	53027	1990	Now	Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
MD82	GA Telesis	JT8D-200	49991	1990	Now	Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
MD82	GA Telesis	JT8D-200	53025	1990	Now	Sale	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-135ER	Bristol Associates		145176	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145186	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135ER	Bristol Associates		145192	1999	Now	Sale	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates		145332	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates		145334	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000
ERJ-135LR	Bristol Associates		145323	2000	Now	Sale / Lease	Ed McNair / Pete Seidlitz	bristol@bristolassociates.com	+1 202-682-4000



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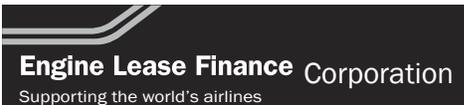
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Regional Jet / Turboprop Aircraft (cont.)

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
ERJ-145ER	GA Telesis		145049	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145052	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145054	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145056	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145057	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145045	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145063	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145071	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321
ERJ-145ER	GA Telesis		145067	1998	Now	Sale / Lease	Stefanie Jung	sjung@gatelesis.com	+1 954-958-1321

Commerical Engines

Multiple Types	Sale / Lease	Company	Contact	Email	Phone
Multiple Engines GE / CFM / RB211	Now - Sale / Lease	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
AE3007 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) AE3007A1	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
(2) CF34-10E5	Now - Lease				
(1) CF34-3B / 3B1	Now - Lease				
(1) CF34-3A	Now - Sale / Lease				
(1) CF34-3B1	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(2) CF34-3A1	Now - Sale / Lease				
(1) CF34-8C5/B1	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) CF34-8C5	Now - Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 617 828-3569
(1) CF34-8C5	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(1) CF34-10E6	Now - Lease				
(1) CF34-8E5A1	Now - Lease	AeroCentury	Frank Pegueros	frank.pegueros@aerocentury.com	+1 650 340 1888
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
(2) CF6-80C2A5	Now - Sale / Lease	Apollo Aviation Group	Erik Castillo	erikc@apollo.aero	+1 (305) 579-2340
(1) CF6-80C2B4	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Sale / Lease				
(1) CF6-80C2BXF	Now - Sale / Lease				
(2) CF6-80C2A2	Now - Sale / Lease				
(1) CF6-50C2	Now - Sale / Lease	Taking Aviation Forward, LLC	Konrad J Walter	konrad@TakingAviationForward.com	+1 954-445-8127
(1) CF6-50	Now - Sale / Lease	Phoenix Aer Capital	Bob Gallagher	REG@PACLLC.AERO	+1 727-376-9292
(1) CF6-80C2B7F	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
CF6-50E2 (multiple)	Now - Sale / Lease	Commercial Aircraft Services	Brian Cooper	brian@casi.aero	+1 208-899-1915
(1) CF6-80C2B1F	Now - Sale / Lease	AerSale. Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B6F	Now - Sale / Lease		Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) CF6-80C2B7F	Now - Sale / Lease		Steven Boecker	steven.boecker@aersale.com	+1 305 815-9855
(2) CF6-80C2BXF	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760884250
(1) CF6-80C2B1F	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CF6-80C2B6F	Now - Sale / Lease				
(1) CF6-80C2B1F	Now - Sale / Exchange	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 (214) 263-1173
(1) CF6-80C2B6F	Now - Sale / Exchange		or		
(2) CF6-80C2B6F	Now - Lease		Andrew McCain	amccain@aeroturbine.com	+1 (786) 879-0830
(1) CF6-80C2B6 PMC	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF6-80C2B4	Now - Sale / Lease				
(1) CF6-80C2B7F	Now - Sale / Lease				
(2) CF6-80C2B7F	Now - Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 (617)828-3569



Commerical Engines (cont.)

CFM56 Engines	Sale / Lease	Company	Contact	Email	Phone
CFM56-3C1 (SV)	Now - Sale / Lease	TrueAero, LLC	Brent Corrie	bcorrie@trueaero.com	+1 561-310-3242
(2) CFM56-5C4/P	Now - Sale / Lease				
(2) CFM56-5A3	Now - Sale	Aeronautics Fund	Jerome Guichard	jg@afd.aero	+33 6 88 92 28 54
(1) CFM56-7B27	Now - Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 617 828-3569
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-5A3	Now - Sale / Lease	World Star Aviation Services	Sean O Connor	Soconnor@worldstaraviation.com	+1 415-956-9456
(1) CFM56-3B1	Now - Sale / Lease				
(1) CFM56-3C1	Now - Sale / Lease				
(2) CFM56-3C1	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(1) CFM56-5A3	Now - Sale / Lease				
(2) CFM56-5B4P	Now - Sale / Lease				
(1) CFM56-5C4	Now - Sale / Lease				
(3) CFM56-5A1	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CFM56-3C1	Now - Sale		Mike Visconti	mike@avvenireservices.com	+1 305 753-6106
(1) CFM56-3B2	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(1) CFM56-3C1	Now - Sale / Lease				
(1) CFM56-7B27/3B1F	Dec 14 - Sale/Lease/Exch.	AerSale, Inc.	Alan Kehoe	Alan.Kehoe@aersale.com	+353 879 393 534
(1) CFM56-3B1	Now - Lease				
(1) CFM56-3C1	Now - Lease				
(4) CFM56-3B1/C1	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(6) CFM56-3C1	Now - Sale/Lease/Exch.	Lufthansa Technik Airmotive Irel.	Alan Phelan	engines@ltai.ie	+353-87-2786738
(1) CFM56-3B2	Now - Sale/Lease/Exch.				
(2) CFM56-7B	Now - Sale / Lease	Castlelake	Neil McCrossan	neil.mccrossan@castlelake.com	+44-207-190-6119
(1) CFM56-5C3F	Now - Sale / Lease				
(1) CFM56-5B	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner-aero.com	+1-703-402-7430
(1) CFM56-7B	Now - Sale/Lease/Exch.				
CFM56-3(s)	Now - Sale/Lease/Exch.	SES	Ivan Graydon	marketing@ses.ie	+ 353 61 70 6463
CFM56-5A(s)	Now - Sale/Lease/Exch.				
CFM56-5B(s)	Now - Sale/Lease/Exch.				
CFM56-7B(s)	Now - Sale/Lease/Exch.				
(1) CFM56-7B24 (Non-TI)	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B24E	Now - Lease				
(1) CFM56-5A3	Now - Lease				
(2) CFM56-5C4/P	Now - Lease				
(1) CFM56-7B24/3	Now - Lease				
(3) CFM56-3C1	Now - Sale / Exchange	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 (214) 263-1173
(2) CFM56-5A1F	Now - Lease		or		
(2) CFM56-3C1	Now - Lease		Andrew McCain	amccain@aeroturbine.com	+1 (786) 879-0830
(1) CFM56-3B1	Now - Lease				
(2) CFM56-3B2	Now - Sale / Exchange				
(1) CFM56-7B22	Now - Sale / Exchange				
(1) CFM56-7B	Now - Lease				
(1) CFM56-5A3	Now - Sale / Lease	Apollo Aviation Group	Erik Castillo	erikc@apollo.aero	+1 (305) 579-2340
(3) CFM56-5C4	Now - Sale / Lease				
(2) CFM56-7B	Now - Sale / Lease				
(7) CFM56-3B2	Now - Sale / Lease				
(1) CFM56-3B1	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760884250
(1) CFM56-3C1	Now - Sale/Lease/Exch.				
(2) CFM56-5A	Now - Sale	GECAS Engine Leasing	Sherry Riley	engine.leasing@gecas.com	+1(513)782-4272
JT8D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT8D-217C/219	Now - Sale / Lease	Azure Resources	Jeff Young	jeff@azureres.com	+1-954-249-7935
(5) JT8D-200	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) JT8D-219 or -217	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
JT9D Engines	Sale / Lease	Company	Contact	Email	Phone
(1) JT9D-7R4D overhauled	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
(34) JT9D-7R4D	Now - Sale / Lease				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
PW121	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
PW123	Now - Sale/Lease/Exch.				
PW124B	Now - Sale/Lease/Exch.				
PW125B	Now - Sale/Lease/Exch.				
PW127E/F/M	Now - Sale/Lease/Exch.				
PW150A	Now - Sale/Lease/Exch.				
(2) JT9D7R4	Now - Sale / Lease	Phoenix Aer Capital	Bob Gallagher	REG@PACLLC.AERO	+1 727-376-9292

Commerical Engines (cont.)

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(3) PW121 (ATR)	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	ddesaulniers@willislease.com	+1 415 516 4837
(2) PW121-8	Now - Sale/Lease/Exch.				
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(2) PW127F	Now - Sale/Lease/Exch.				
(2) PW124B	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				
(1) PW121	Now - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(various) PW127B	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
(1) PW150A	Now - Sale	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
PW2000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW2037	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(2) PW2037	Q2/15 - Sale	Wing Capital	Ben Jacques	bjacques@wngcapital.com	+353 766025252
(1) PW2037	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(3) PW2037	Now - Sale / Exchange	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 (214) 263-1173
PW4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(5) PW4056-1	Now - Sale/Lease/Exch.	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
PW4056-3	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) PW4056-3	Now - Sale / Lease	Apollo Aviation Group	Erik Castillo	erikc@apollo.aero	+1 (305) 579-2340
(2) PW4056-3	Now - Sale / Exchange	AeroTurbine	Elizabeth Peters	epeters@aeroturbine.com	+1 (214) 263-1173
(1) PW4060-3	Dec 14 - Sale / Lease	Royal Aero	Frank Rustmeier	frank@royalaero.com	+49 (0)8025 99360
(1) PW4056-3	Now - Sale / Lease	Fortress Investment Group	Tom McFarland	Aviation@fortress.com	+1 305-520-2349
(2) PW4060-3	Now - Sale / Lease	AerSale, Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(3) PW4168A	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760 884250
(1) PW4060C-1C	Now - Sale / Lease	IAI	Michal Bulvik	mbulvik@iai.co.il	+972-3-9353612
(1) PW4060	Q1/2015 - Lease	ORIX Aviation	Cian Coakley	cian.coakley@orix.ie	+353 877760451
(1) PW4168A	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) PW4168A	Now - Sale / Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 (617)828-3569
RB211 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) RB211-524	Now - Sale / Lease	AerSale, Inc.	Matthew White	matthew.white@aersale.com	+353 1475 3005
(1) RB211-535E4	Now 14 - Sale / Lease				
(2) RB211-535E4 /12B	Now - Sale/Lease/Exch.	TES Aviation Group	Lee Whitehurst	lee.whitehurst@tes-uk.com	+ 44 (0) 7760 884250
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 800	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) Trent 884	Now - Sale / Lease	Apollo Aviation Group	Erik Castillo	erikc@apollo.aero	+1 (305) 579-2340
Tay Engines	Sale / Lease	Company	Contact	Email	Phone
(multiple) Tay 650-15	Now - Sale / Lease	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
(2) Tay650-15	Now - Sale / Lease	Jetran, LLC.	Leo Nadeau	lnadeau@jetran.aero	+1 (512) 294-6727
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) V2527-A5	Now - Lease	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) V2533-A5	Now - Lease				
(1) V2527-A5	Now - Sale/Lease/Exch.		Elizabeth Peters	epeters@aeroturbine.com	+1 (214) 263-1173
(2) V2533-A5	Now - Sale/Lease/Exch.		or Andrew McCain	amccain@aeroturbine.com	+1 (786) 879-0830
1) V2533-A5 w/QEC	Now - Lease	Rolls-Royce & Partners Finance	Bobby Janagan	bobby.janagan@rolls-royce.com	+44 20 7227 9078
(1) V2527-A5 w/QEC	Now - Lease				
V2500-A5	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bill Polyi	bill.polyi@magellangroup.net	+1 (704) 504 9204 x202
(1) V2527	Now - Sale / Lease	TrueAero, LLC	Brent Corrie	bcorrie@trueaero.com	+1 561-310-3242
(1) V2533-A5	Now - Sale/Lease/Exch.	Werner Aero Services	Cliff Topham	ctopham@werner-aero.com	+1-703-402-7430
(1) V2527-A5	Now - Lease	Engine Lease Finance	Joe Hussar	joseph.hussar@elfc.com	+1 617 828-3569
(1) V2533-A5	Now - Sale / Lease				

Aircraft and Engine Parts, Components and Misc. Equipment

Description	Company	Contact	Email	Phone
A320 Fresh Part-out	TrueAero, LLC	Raul Miro/Dave Walters	sales@trueaero.com	+1 772-925-8026
A320 Landing Gear with Fresh Tags				
737-500 Fresh Part-out				
APU GTCP 131-9B, GTCP 331-500B	Willis Lease	Ann Lee	alee@willislease.com	+1 (415) 408 4769
(1) APU GTCP331-200 and (2) APU APS 2000	Phoenix Aer Capital	Bob Gallagher	REG@PACLLC.AERO	+1 727-376-9292
APU 3800298-1-2 (B767)	Jet Midwest	Kevin Lee / Cathy Liu	cathy.liu@jetmidwest.com	+1 310 652 0296
GTCP131-9A (P/N 3800708-1)	Werner Aero Services	Christopher Farrell	cfarrell@werner-aero.com	+1 201-661-6819
GTCP36-300A (P/N 3800278-4)				
1 V2500 QEC kit, p/n 745k9001-46	Tradewinds Engine Serv.	Brad Pleimann	bpleimann@tesllc.aero	+1 954 421 2510
CFM56-7B Evol. LPT mod. Ass. 338-092-319-0				
CFM56-5B/5C/7B and V2500-A5 engine stands				
737-800 NOSE LANDING GEAR PN 162A1100-5, OH - Now Sale	Reliance Aircraft	Terry Hix	thix@relianceaircraft.com	+1 512-439-6988
(1) PW901A	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
GTCP131-9B, PW901, (2) GTCP36-300,	Aeroturbine	Rodney Lee	ralee@aeroturbine.com	+1 972-813-1176
GTCP131-9A, (2) RE220RJ, GTCP331-350C, APS3200				