

# BOC Aviation Investor Presentation 

JANUARY 2023

(D) BOC AVIATION

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## 3Q 2022 and Recent Developments

| STRONG ASSET QUALITY | - 612 aircraft owned, managed and on order ${ }^{1}$ <br> - 4.3 years $^{2}$ average fleet age; 8.2 years ${ }^{2}$ average remaining lease term <br> - $96 \%$ aircraft utilization rate |
| :---: | :---: |
| PROACTIVE INVESTMENT STRATEGY | - 12 aircraft deliveries, including six used aircraft transitions <br> - 21 lease commitments signed <br> - Committed to acquire nine new aircraft, including six Airbus A320NEO aircraft placed with JetSMART <br> - Agreed to purchase 40 new Boeing 737 MAX 8 aircraft |
| FUTURE GROWTH | - Delivered nine new Boeing 787 aircraft from our orderbook to American Airlines by end-2022 since delivery of the 787 aircraft resumed in August 2022 <br> - Expecting another nine to be delivered to American Airlines through to 2024 |



ROBUST LIQUIDITY

- US\$6 billion of available liquidity ${ }^{3}$
- More than covers 2023 target capex and maturing liabilities
- Well positioned to support future investment
- Limited refinancing required



## How We Invest

Number of aircraft delivered, purchased and sold


Investing in aircraft through multiple cycles

## Popular and Fuel-Efficient Fleet

Our aircraft portfolio

| Aircraft type | Owned aircraft | Managed aircraft | Aircraft on order ${ }^{1}$ | Total |
| :---: | :---: | :---: | :---: | :---: |
| Airbus A320CEO family | 100 | 15 | 0 | 115 |
| Airbus A320NEO family | 93 | 0 | 117 | 210 |
| Airbus A330CEO family | 8 | 1 | 0 | 9 |
| Airbus A330NEO family | 6 | 0 | 0 | 6 |
| Airbus A350 family | 9 | 0 | 0 | 9 |
| Boeing 737NG family | 72 | 14 | 0 | 86 |
| Boeing 737 MAX family | 52 | 0 | 50 | 102 |
| Boeing 777-300ER | 27 | 4 | 0 | 31 |
| Boeing 787 family | 23 | 1 | 14 | 38 |
| Freighters | 5 | 1 | 0 | 6 |
|  |  |  |  |  |
| Total | 395 | 36 | 181 | 612 |

## Global Passenger Traffic Recovering Rapidly



Passenger traffic now within 20\% of pre-pandemic levels, ex-China

## Most Major Passenger Markets See Strong Travel Rebound

## Market continues to recover



## Rental Collection Improving



- Long term cash collection from airline customers remains high, at an average rate of $98.7 \%$ since 2008
- Collections were severely affected by the Covid-19 outbreak in early 2020, but have been recovering quickly to pre-pandemic level


## Improving Forward Bookings Drive Traffic Recovery



Source: IATA Monthly Statistics

## Passenger ticket sales

Bookings by purchase date, year-on-year vs 2019, 7-day
—Domestic —International


## Jet Fuel Prices

Jet fuel price, US\$


## USD Strength Affects Airline Costs



## Airline Earnings: Speediest Recovery in History



## Value of Deliveries to Exceed US\$120 Billion in 2025

Annual capex - US\$ billion


## Lessors Own 52\% of the Aircraft Market Today

Proportion of fleet on operating lease


Lessors own 52\% of the aircraft market today; this proportion has potential to increase

## Looking Ahead

- Improving airline traffic visible globally
- Long-haul markets recovering
- Asia is poised to follow suit as more markets are opening up
- China re-opening will drive upside globally and especially for Southeast Asia
- Russian airspace closure having limited effect on overall travel demand
- Higher interest rates, fuel prices and USD provide financing opportunities for well-capitalised operating lessors
- Airline capex showing signs of distinct recovery
- A global aircraft operating lessor committed for the long-term
- Resilient 1H 2022 performance achieved amidst a challenging backdrop
- Orderbook and available liquidity of US\$6 billion position us well to capture airline demand upturn
- Committed lease revenues of US\$17 billion
- Three female Directors out of Board of 11


## APPENDICES

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## The BOC Aviation Journey

## Ownership



[^0]Total assets
US\$ billion

## BOC Aviation - Who Are We?

Top 5

Global aircraft operating lessor ${ }^{1}$

## Listed on HKEX

HKEX code: 2588

## >US $\$ 5.0$ billion

Cumulative profits since inception ${ }^{2}$

## US\$6.0 billion

Available liquidity

## 181

Aircraft on order ${ }^{3}$

## Bank of China

$70 \%$ owned by BOC

A- Investment grade credit ratings from S\&P and Fitch

## US\$22.8 billion

Total assets ${ }^{2}$
612
Aircraft in fleet ${ }^{4}$

## 4.3 years; 8.2 years

Average fleet age \& lease term remaining ${ }^{5}$

Industry leader focused on long-term sustainable earnings

## Globally Diverse Management Team



## Core Competencies - BOC Aviation Track Record

## Since inception in 1993:

- Purchasing
- Leasing
- Financing ${ }^{1}$
- Sales
- Transitions
- Repossessions ${ }^{2}$

More than 990 aircraft purchased totalling close to US\$57 billion
More than 1,190 leases executed with >180 airlines in 61 countries and regions
More than US\$38 billion in debt raised since 1 January 2007

More than 400 aircraft sold
More than 110 transitions
65 aircraft in 19 jurisdictions

## Resilient Performance in a Challenging Market

Diversified revenue sources underpin growth


US\$ million


1H 2022 operating cash flow net of interest ${ }^{1}$
US\$ million


US\$ million


## Lease Rental Income Continues to Dominate Revenue



## Lease Yields Reflect Market Environment During Covid




## Globally Diversified Portfolio

Lease portfolio diversified by customer1,2


## Collection rate (\%)

98.599 .4100 .999 .897 .2100 .499 .9100 .499 .899 .9100 .396 .994 .096 .696 .9

Average $=98.7 \%$

...and increasingly diversified by geography ${ }^{1,3}$


Fleet utilisation (\%) ${ }^{4}$
100.0100 .0100 .0100 .099 .899 .099 .9100 .099 .999 .899 .999 .699 .698 .595 .9

Average = 99.5\%


## Diverse Funding Channels Utilised in 1H 2022

## Sources and Uses of Cash

US\$ million


US\$6 billion of committed available liquidity

## Flexible Capital Structure and Ample Backstop Liquidity



## Fixed Rate Leases and Debt

Fixed rate leases dominate ${ }^{1}$
By net book value


Stable proportion of fixed rate debt ${ }^{2}$


## Aviation in a Low Carbon Environment

|  | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 | 2050 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commuter |  |  |  |  |  |  |  |
| " 9-50 seats <br> " < 60 minute flights <br> " $<1 \%$ of industry $\mathrm{CO}_{2}$ | SAF | Electric and/or SAF | Electric and/or SAF | Electric and/or SAF | Electric and/or SAF | Electric and/or SAF | Electric and/or SAF |


| Regional |  |  |
| :--- | :--- | :--- |
| "50-100 seats | SAF | SAF |
| " $30-90$ minute flights |  |  |
| " $\sim 3 \%$ of industry CO 2 |  |  |


| Electric or | Electric or | Electric or | Electric or | Electric or |
| :---: | :---: | :---: | :---: | :---: |
| Hydrogen | Hydrogen | Hydrogen | Hydrogen | Hydrogen |
| fuel cell | fuel cell | fuel cell | fuel cell | fuel cell |
| and/or SAF | and/or SAF | and/or SAF | and/or SAF | and/or SAF |

## Short haul

» 100-150 seats
» 45-120 minute flights
" $24 \%$ of industry $\mathrm{CO}_{2}$
SAF
SAF
SAF
SAF

Electric or
Hydrogen combustion and/or SAF

| Electric or | Electric or |
| :---: | :---: |
| Hydrogen | Hydrogen |
| combustion | combustion |
| and/or SAF | and/or SAF |

SAF potentially some Hydrogen

## Long haul

» $250+$ seats
" 150 minute + flights
SAF
SAF
SAF
SAF
SAF
SAF
SAF

## Endnotes (1)

- SLIDE 3: 3Q 2022 and Recent Developments

1. Includes all commitments to purchase aircraft including those where an airline customer has the right to acquire the relevant aircraft on delivery
2. Weighted by net book value of owned fleet as at 30 June 2022
3. As at 30 June 2022

- SLIDE 5: Popular and Fuel-Efficient Fleet

1. Includes all commitments to purchase aircraft including those where an airline customer has the right to acquire the relevant aircraft on delivery

- SLIDE 6: Global Passenger Traffic Recovering Rapidly - Source: IATA Air Passenger Market Analysis (October 2022)
- SLIDE 7: Major Passenger Markets See Strong Rebound in Travel - Sources: China MoT (Air Pax YoY) TravelSky (Traffic), TSA (Throughput), Eurocontrol (Flights), AWN ADS-B (Flights)

1. Changes compared to 2021 with effect from January 2022

- SLIDE 9: Improving Forward Bookings Drive Traffic Recovery - Source: IATA Air Passenger Market Analysis (October 2022)
- SLIDE 10: Jet Fuel Prices - Source: Bloomberg, 2 January 2023
- SLIDE 11: Strengthening USD - Source: Bloomberg, 3 January 2023
- SLIDE 12: Airline Earnings: Speediest Recovery in History - Source: Airline Industry Update and Outlook (IATA, 6 December 2022)
- SLIDE 13: Value of Deliveries to Exceed US\$120 Billion in 2025 - Sources: BOC Aviation Analysis


## Endnotes (2)

- SLIDE 14: Lessors Own 52\% of the Aircraft Market Today - Sources: Ascend, as at 30 September 2022, based on aircraft of $100+$ seats. Fleet data for 2020 onwards includes aircraft in-service and aircraft additionally parked from end-2019 due to Covid-19 fleet grounding
- SLIDE 18: BOC Aviation - Who Are We?

1. By net book value of owned aircraft
2. As at 30 June 2022
3. Includes all commitments to purchase aircraft including those where an airline customer has the right to acquire the relevant aircraft on delivery
4. Includes owned, managed and aircraft on order as at 30 September 2022
5. Weighted by net book value of owned fleet as at 30 September 2022

- SLIDE 20: Core Competencies - BOC Aviation Track Record

1. As at 30 June 2022
2. Includes repossessions and consensual early returns

- SLIDE 21: Resilient Performance in a Challenging Market

1. Calculated as net cash flow from operating activities less finance expenses paid

- SLIDE 22: Lease Rental Income Continues to Dominate Revenue

1. Excludes income of US\$223 million arising from the termination of leases of aircraft that remain in Russia
2. Excludes the effects of the one-time write-down of the net book value of aircraft that remain in Russia of US\$804 million
3. Comprises aircraft depreciation and impairment charges

## Endnotes (3)

- SLIDE 23: Lease Yields Reflect Market Environment During Covid

1. Calculated as operating lease rental income divided by average net book value of aircraft and multiplied by $100 \%$
2. Calculated as the sum of finance expenses and capitalised interest, divided by average total indebtedness. Total indebtedness represents loans and borrowings before adjustments for deferred debt issue costs, fair values, revaluations and discounts/premiums to medium term notes
3. Calculated as operating lease rental income less finance expenses apportioned to operating lease rental income, divided by average of aircraft net book value. Net lease yield for 1 H 2022 is calculated on an annualised basis.

- SLIDE 24: Globally Diversified Lease Portfolio

1. Based on net book value including aircraft subject to finance leases and excluding aircraft off lease and aircraft that remain in Russia as at 30 June 2022
2. For certain airlines, the percentage includes leases to affiliated airlines whose obligations are guaranteed by the named airline
3. Based on the jurisdiction of the primary obligor under the relevant operating lease
4. Fleet utilisation is the total days on-lease in the period as a percentage of total available lease days in the period

- SLIDE 26: Flexible Capital Structure and Ample Backstop Liquidity

1. Drawn debt only

- SLIDE 27: Fixed Rate Leases and Debt

1. By net book value including aircraft subject to finance lease, and excluding aircraft off lease
2. Represents the position net of any hedging

- SLIDE 28: Aviation in a Low Carbon Environment - Source: ATAG Waypoint 2050 Report


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[^0]:    All data as at the end of the relevant period

