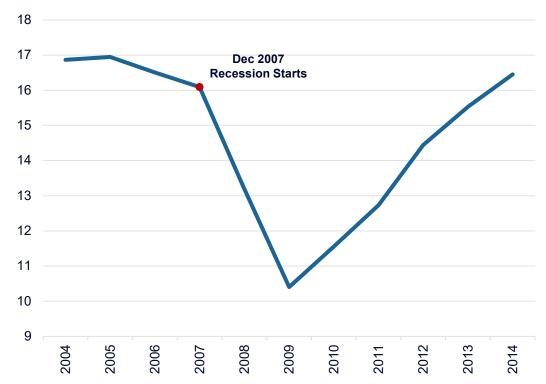


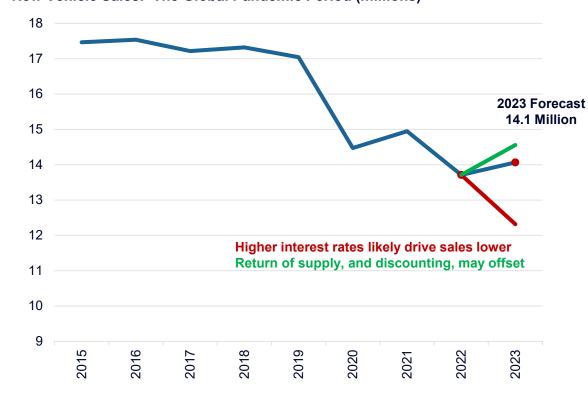
### Recession Risk | Vehicle Market In Different Situation Today

Sales fell off a cliff in 2008, but will only fall off a curb if recession does occur





#### **New Vehicle Sales: The Global Pandemic Period (millions)**



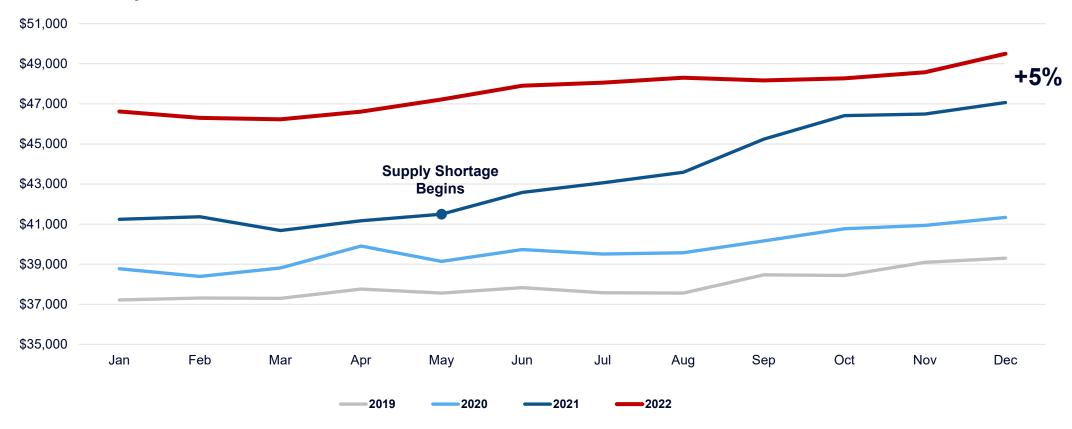


## **Transaction Prices** | Finished 2022 Near \$49,507

Inflation slowing but no retreat - more expensive mix likely to continue



#### **Estimated Monthly Transaction Prices**



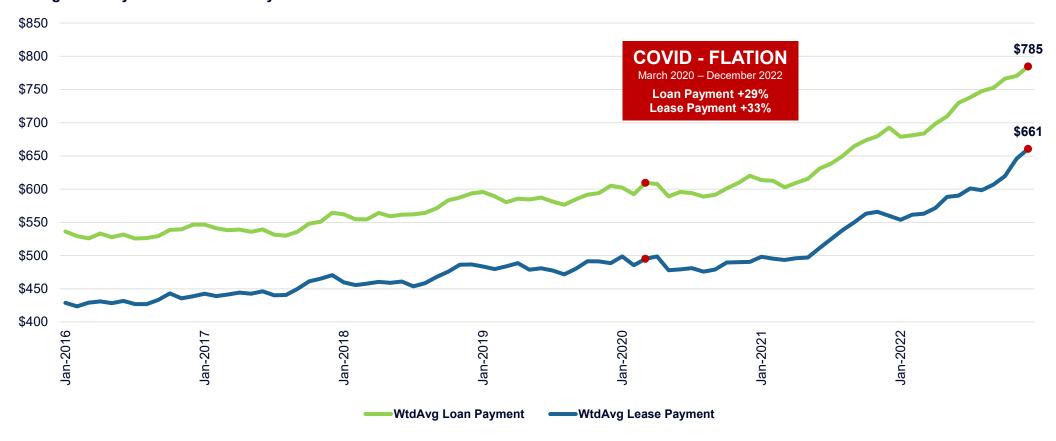


# **Monthly Payments** | Average Loan = \$785, Lease=\$661

Lease payment rising more post Covid - rising interest rates will push both even higher



#### **Average Monthly Loan and Lease Payment**

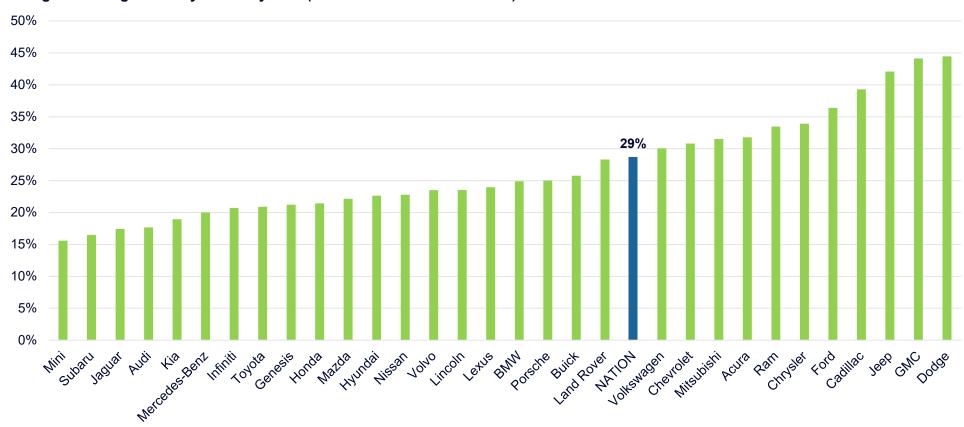




## Change In Payments | Detroit Brands Have Largest Increases/

Many brands show only mild inflation – may be less vulnerable to worsening conditions



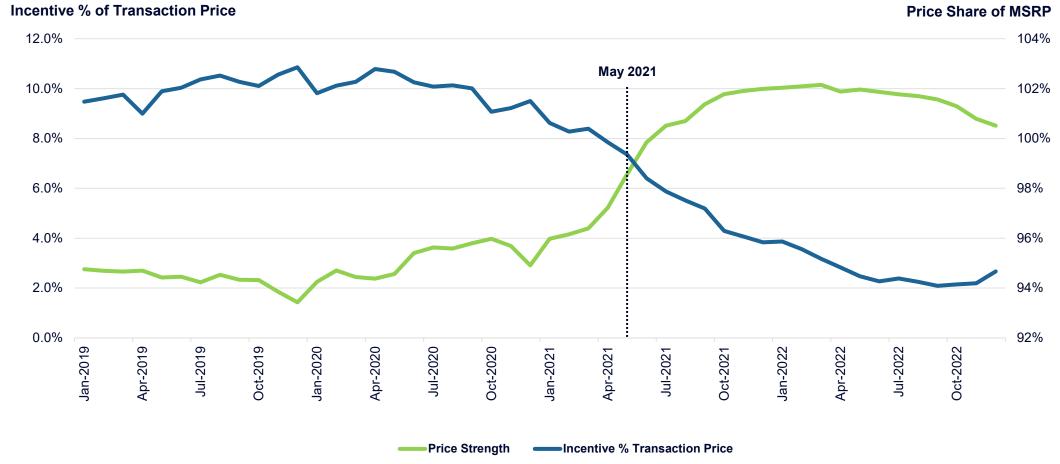




### Seller's Market | Strong Margins Now Weakening

Discounting and negotiating still way down, MSRP=Price now changing





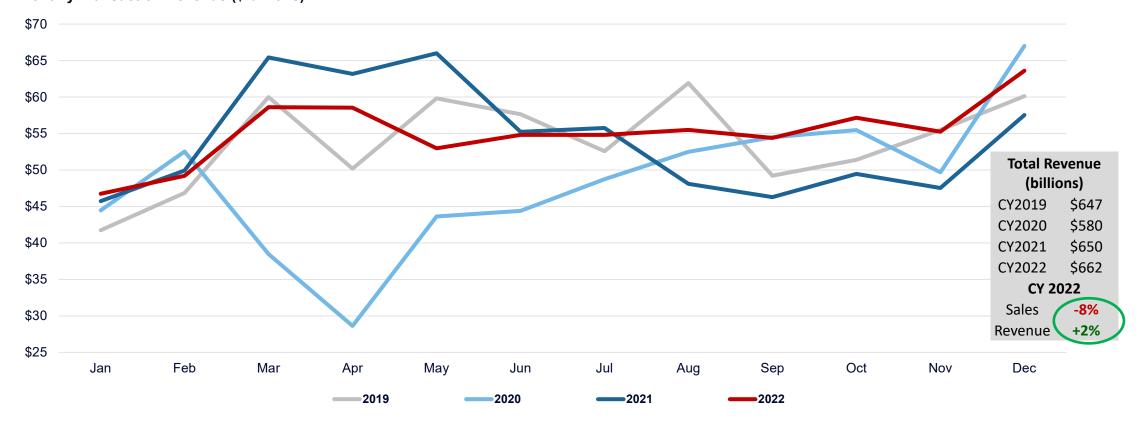


# **Total Revenue** | High Prices Offsetting Lower Volumes

Lower supplies is transforming business models – why get back to "normal"



#### **Monthly Transaction Revenue (\$ billions)**



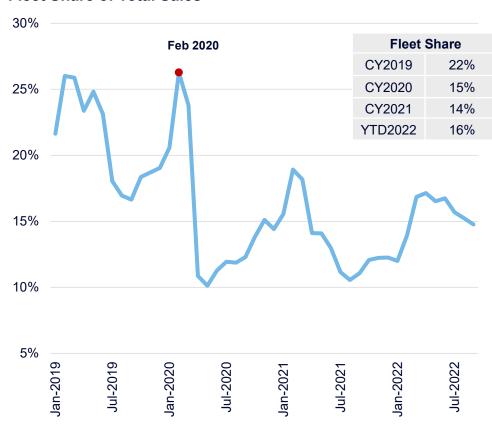


## Sales Channels | Less Fleet and Lease Continues

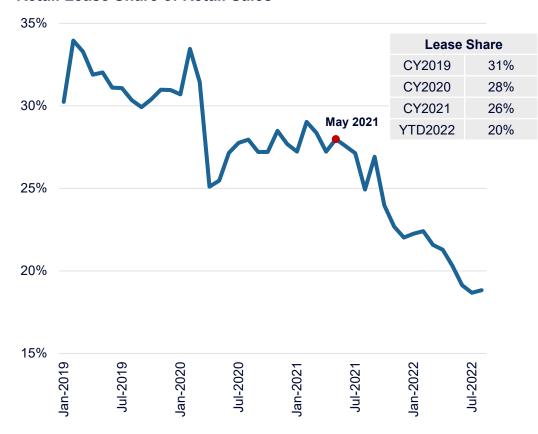
Constrained supply keeping these sales low - offers future opportunities for OEMs



#### Fleet Share of Total Sales



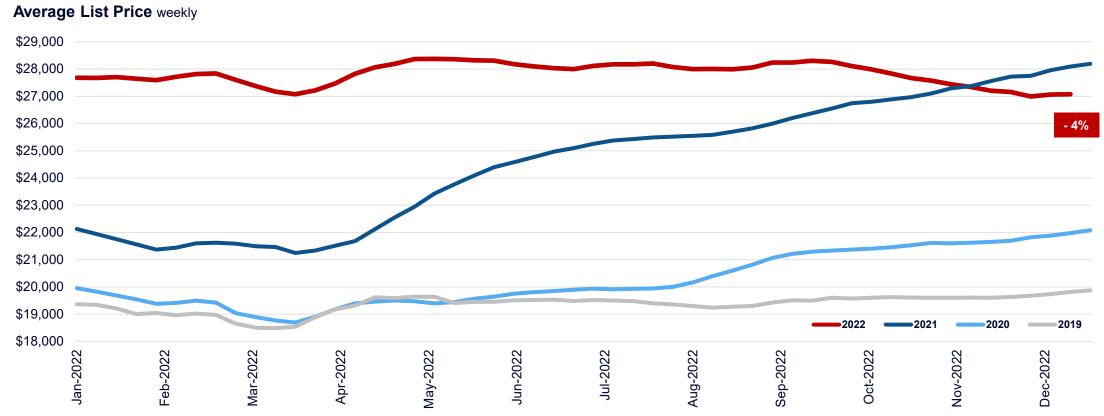
#### **Retail Lease Share of Retail Sales**



### **Used Vehicle List Price** | Now Lower Than Last Year

Used prices showing weakness – giving back some of last year's crazy gains





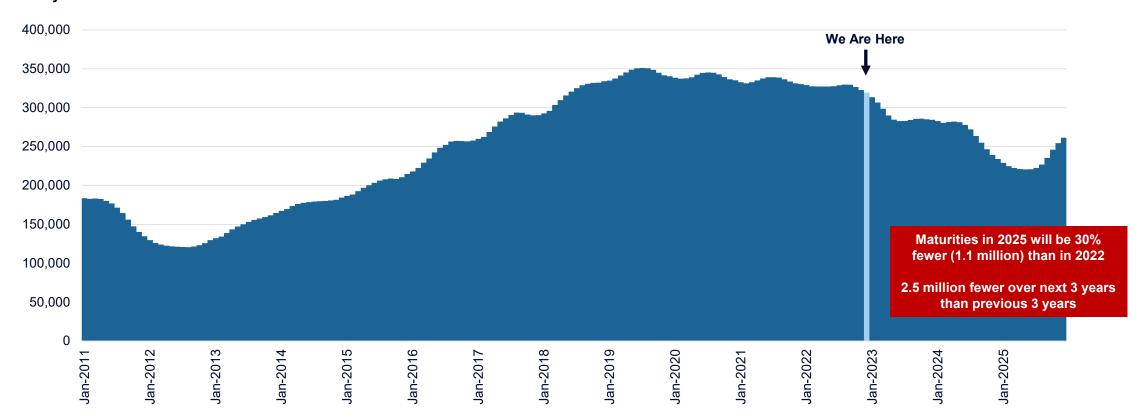


## **Lease Maturities** | Far Fewer In Coming Years

Impact of Covid not fully felt yet – less sales today means less off-lease in 2024 and 2025



#### **Monthly Lease Maturities**

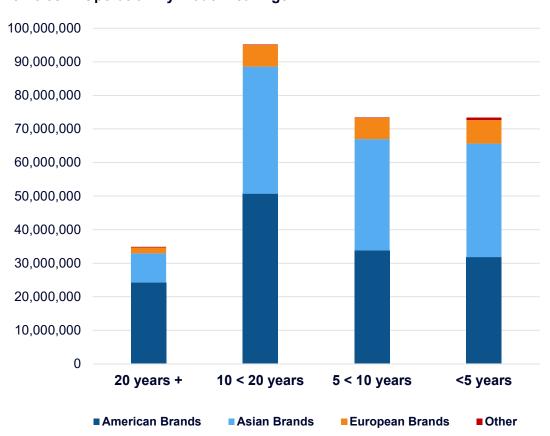




# Light Vehicle Parc | Transition To Electrified Far, Far Away

280 million vehicles on the road – 99.5% use gasoline





 Average vehicle age is 12+ years – and value has increased – likely extending expected usage life even further

Year	12 Year Old Vehicle Wholesale Value
2019	\$3,900
2022	\$5,500
change	41%

- EVs to remain a small fraction of the vehicle population over the next 20 years.
- Dealer repair & maintenance capabilities for new EV technology and old ICE powertrains will be growing necessity.
- Transition to an electrified vehicle fleet will be a long, slow process

   to accelerate, government intervention will be required, and will be disruptive.
- Future Chip Shortage? Will replacement microchips be available in the future to support technology repairs for the existing fleet?

