# Vehicle Service Contract (VSC) Risk Evolution

F&I Reinsurance and Product Conference by Ryan Hartman, FCAS, MAAA Senior Consulting Actuary GPW Actuarial Services, Inc.

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### **Topics**

- VSC Basics
- Vehicle & VSC Sales Trends
- Keys to Monitoring Your Portfolio
- Experience Trends

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#### **VSC Basics**

- Transfers risk of mechanical breakdown not covered by **OEM** warranty
- Covers cost to repair, replace, maintain or restore part to its proper function
- \$100 Deductible most common

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### **VSC Basics - Coverage Categories**

- Powertrain
  - Engine
  - Transmission
  - Transfer Case
  - Drive Axle
- Surcharges
  - Turbo/Super Charger
  - Luxury Electronics
  - 4-Wheel Drive
  - \$0 Deductible

Bumper-to-Bumper exclusionary everything covered except...

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- Tiered Categories
  - Air Conditioning
  - Brakes
  - Electrical
  - Engine Cooling
  - Fuel System
  - Interior/Exterior Fixtures
  - Steering
  - Suspension
- Benefits Roadside, Rental, etc.

Wrap - Tiered or B2B excluding Powertrain (wraps around OEM)

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# VSC Basics Current OEM Warranty Terms

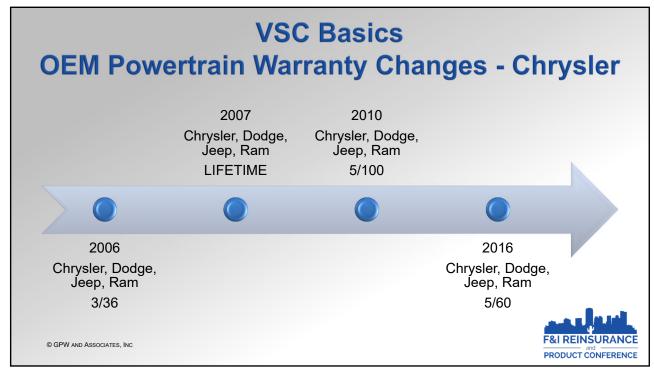
- 3/36 Basic, 5/60 Powertrain
  - Buick/Chevrolet/GMC
  - Chrysler/Dodge/Jeep
  - Ford
  - Honda
  - Mazda
  - Nissan
  - Subaru
  - Toyota
- 5/60 Basic, 10/100 Powertrain
  - Hyundai/Kia/Genesis
  - Mitsubishi
- Others
  - Infiniti 4/60 Basic, 6/70 Powertrain
  - Jaguar 5/60 Basic & Powertrain

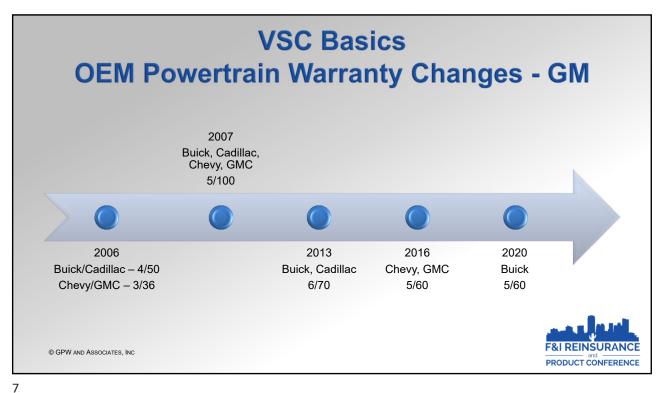
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- 4/50 Basic, 6/70 Powertrain
  - Acura
  - Cadillac
  - Lexus
  - Lincoln
- 4/50 Basic & Powertrain
  - Alfa Romeo/Fiat
  - Audi/Porsche
  - BMW
  - Land Rover/Mini
  - Mercedes-Benz
  - Volkswagen
  - Volvo



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#### **VSC Basics Term Months & Miles**

- New/Extended Eligibility (EE)
  - Still under OEM Comprehensive/Basic Warranty
  - Term Months may begin on either original vehicle in-service date or contract purchase date by new owner
  - Term Miles begin at 0 (Term Miles = Expiration Miles)
- Used
  - Outside of OEM Comprehensive/Basic Warranty
  - Term Months begin on contract purchase date by new owner
  - Term Miles add on to odometer at contract purchase date (Current Odometer + Term Miles = Expiration Miles)

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### VSC Basics Common Terms

- New/Extended Eligibility
  - 60/100,000
  - **72/100,000**
  - **84/100,000**
  - **9**6/100,000
  - **120/100,000**
  - 36 & 48 Month Terms also common for EE
  - 60,000, 75,000 & 125,000 Mile
     Terms also common

- Used
  - 3/3,000 (Limited Warranties)
  - **1**2/12,000
  - **2**4/24,000
  - **36/36,000**
  - **48/48,000**
  - 60/100,000 (Powertrain only)
  - 15,000/Yr Mile Terms also common
  - Some offer Unlimited Miles



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# VSC Basics Rating Variables

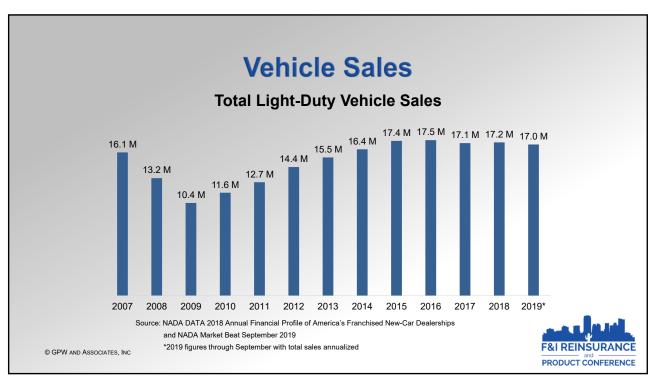
- New/EE or Used
- Coverage Level
- Vehicle Age (Model Year)
- Starting Odometer
- Class (Make & Model)
- Term Months
- Term Miles

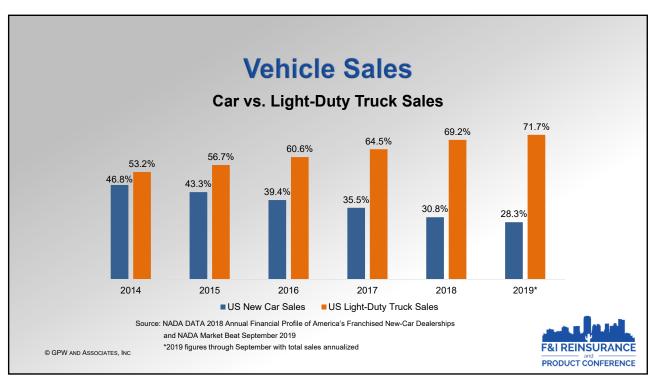
| New Car |                        |         |        |         |         |         |          |  |  |  |
|---------|------------------------|---------|--------|---------|---------|---------|----------|--|--|--|
|         | +1 Yr Vel<br>Starting  | •       |        |         |         |         |          |  |  |  |
|         | Term Months/Term Miles |         |        |         |         |         |          |  |  |  |
| Class   | 60/75K                 | 60/100K | 72/75K | 72/100K | 84/100K | 96/100K | 120/100K |  |  |  |
| 1       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |
| 2       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |
| 3       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |
| 4       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |
| 5       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |
| 6       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |
| 7       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |
| 8       | \$                     | \$      | \$     | \$      | \$      | \$      | \$       |  |  |  |

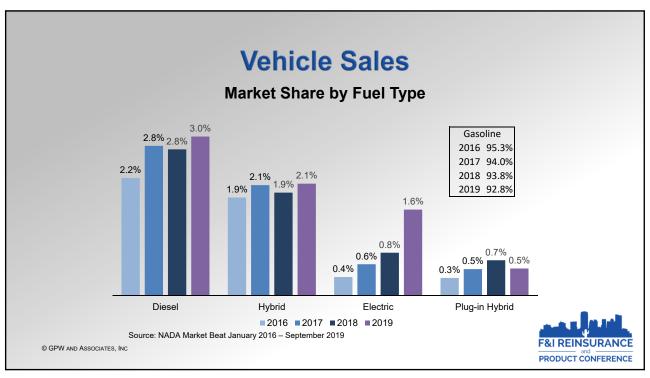
**Exclusionary Coverage** 

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### **Polling Question**

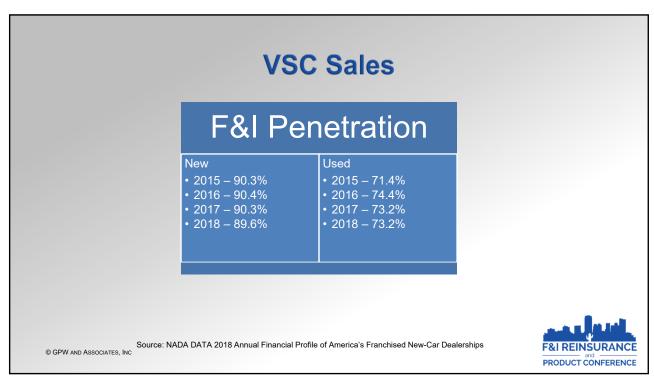
Did you purchase at least one F&I product for your current vehicle?

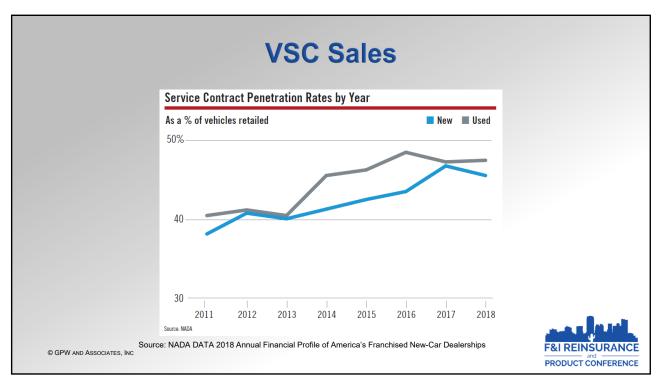
A. Yes

B. No



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### **Keys To Monitoring Your Portfolio**

- Know Your Mix of Business
- Break Experience Down by Contract Year
- Use Appropriate Earnings Curves

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#### **GPW Internal Data**

- Results are blended and smoothed across multiple data sources
- As information is proprietary, actual values have been excluded

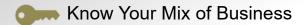
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# **Experience Trends New/EE Loss Ratio Relativities**

|               | 60 Mon | ths/100,00 | 00 Miles | 72 Months/100,000 Miles |     |      |  |
|---------------|--------|------------|----------|-------------------------|-----|------|--|
| Odometer Band | Asia   | USA        | Euro     | Asia                    | USA | Euro |  |
| 0-15,000      |        |            |          |                         |     |      |  |
| 15,000-30,000 |        |            |          |                         |     |      |  |
| 30,000-45,000 |        |            |          |                         |     |      |  |
| 45,000-60,000 |        |            |          |                         |     |      |  |

Lower Loss Ratio Higher Loss Ratio



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Source: GPWAS Internal Data

As information is proprietary, we have excluded actual values

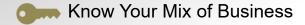


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### **Experience Trends Used Loss Ratio Relativities**

|                 | 24 Months/24,000 Miles |     |      | 36 Months/36,000 Miles |     |      | 48 Months/48,000 Miles |     |      |
|-----------------|------------------------|-----|------|------------------------|-----|------|------------------------|-----|------|
| Odometer Band   | Asia                   | USA | Euro | Asia                   | USA | Euro | Asia                   | USA | Euro |
| 0-50,000        |                        |     |      |                        |     |      |                        |     |      |
| 50,000-100,000  |                        |     |      |                        |     |      |                        |     |      |
| 100,000-150,000 |                        |     |      |                        |     |      |                        |     |      |

Lower Loss Ratio Higher Loss Ratio

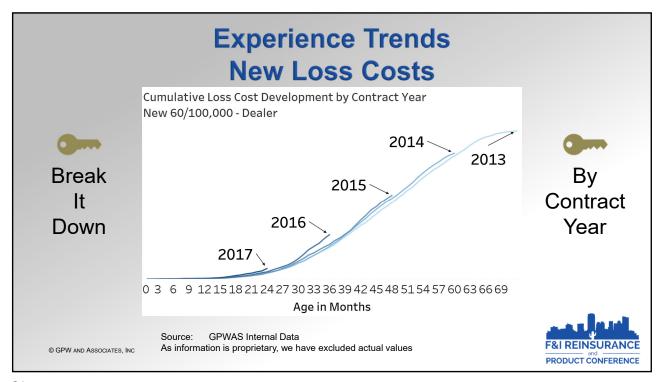


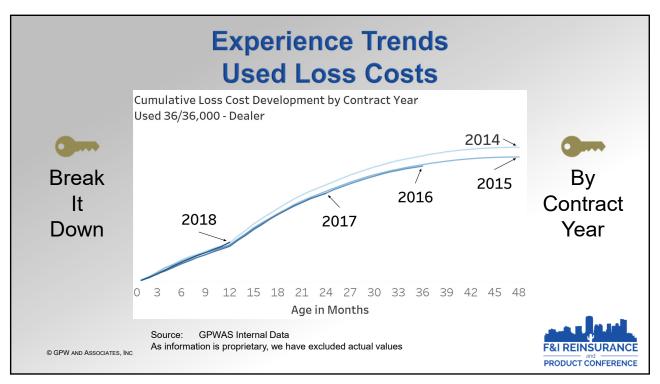
Source: GPWAS Internal Data

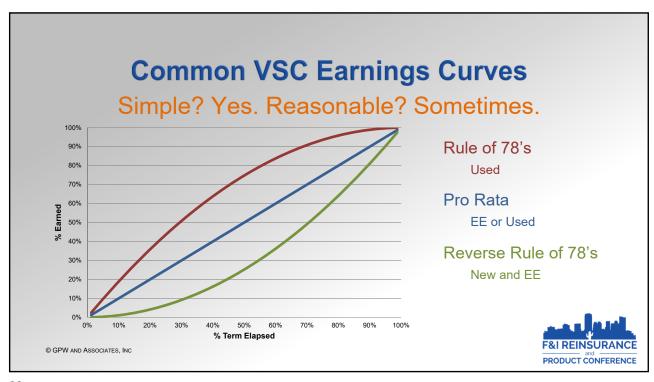
As information is proprietary, we have excluded actual values

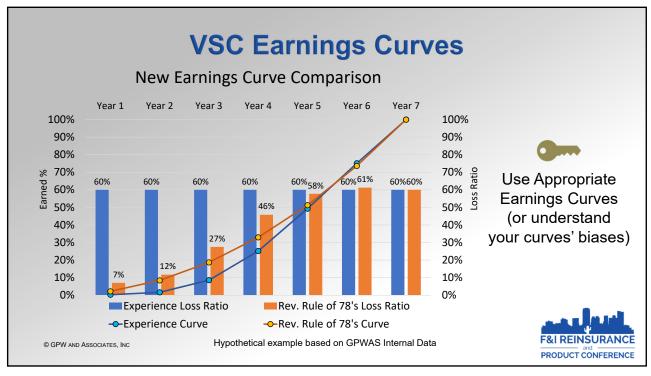
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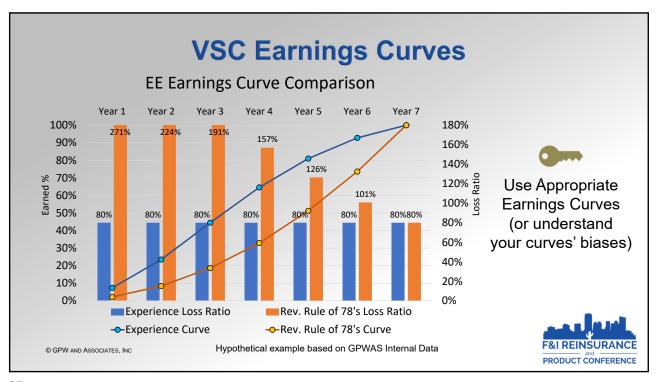


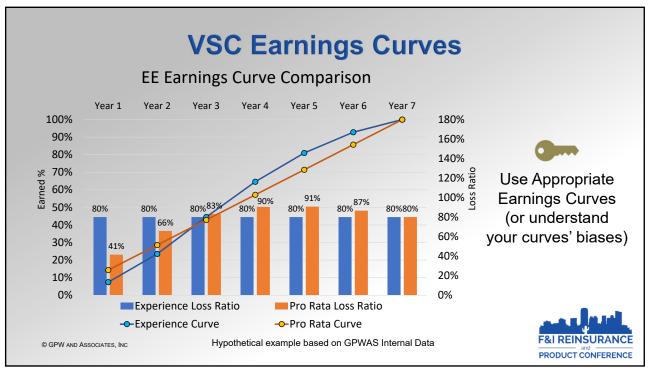


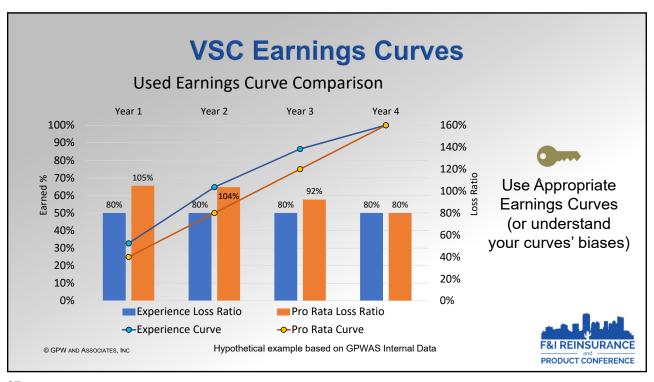


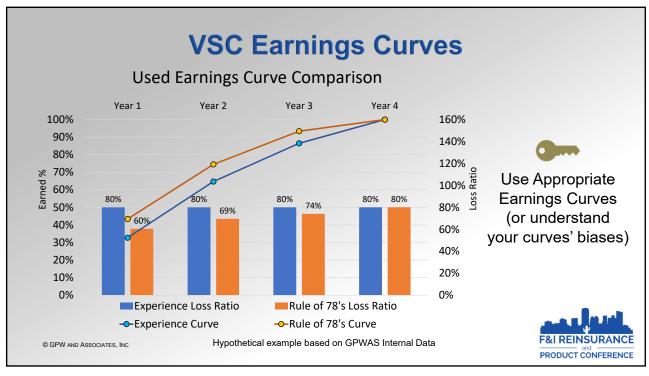












### **Keys To Monitoring Your Portfolio**

- Know Your Mix of Business
- Break Experience Down by Contract Year
- Use Appropriate Earnings Curves

#### Additional Information:

https://www.providers-administrators.com/348218/earnings-curves-matching-premium-with-losses-and-refunds
https://www.providers-administrators.com/348369/staying-ahead-of-the-earnings-curve-alternative-methods-of-examining-vsc-experie

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#### **Questions**



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