

2004 MY Corvette/XLR Quick Connect Update

15 Nov 2005

Condition: The 2" Quick Connect (Q.C.) which is used to interface the right and left hand fuel tanks via a Stainless Steel convoluted tube is cracking at the intersection of the weld flange & Q.C. body.



Key Information

- The Condition is created by an interaction...
- All known failures are from the same lot of material, lot 2637.
- Suspect timeframe: 10/22/2003 – 3/16/2004
- Vehicle Population: ~ 15,109 vehicles
- Total number of warranty claims ~ 931

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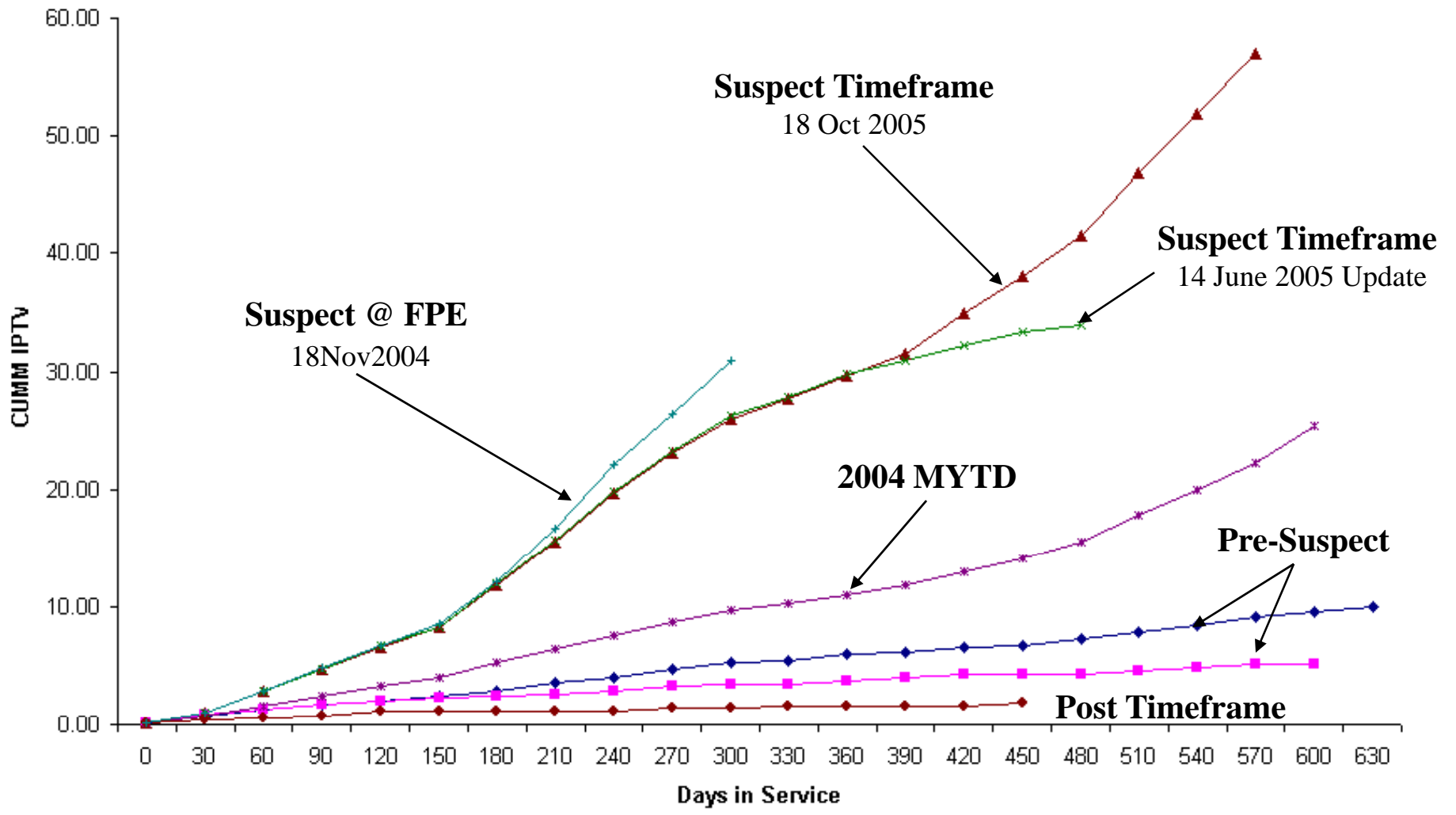
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End-Customer Early Warning Signs

- ✓ Failure originates as stress whitening
- ✓ Crack propagates over time due to temperature and fuel exposure
- ✓ Warning Methods change as crack propagates

Customer Warning	~ Size of Crack*	Type of Emission
Fuel Vapor Smell	.010"	Vapor
Small Leak Detection (MIL Light)	.020	Vapor
Gross Leak Detection (MIL Light)	.040	Vapor
Fuel Leakage During Refueling	.040 & Greater	Liquid
* Measurements in equivalent orifice diameters.		

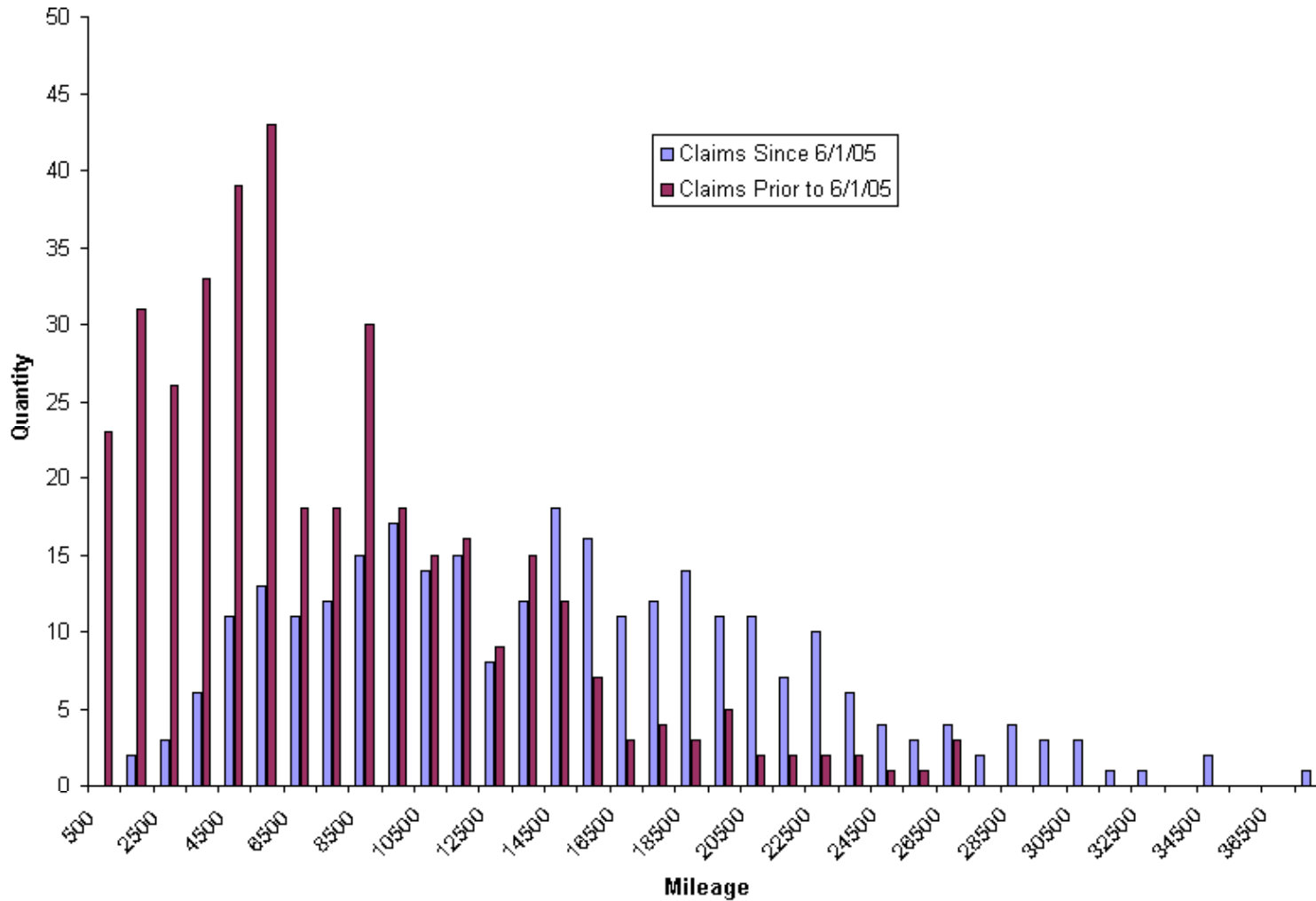
2004 MY Corvette/XLR Warranty
Fuel tank Replacement, L1281
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Corvette/XLR Fuel Tank Warranty Claims
Suspect Timeframe L1280 & L1281

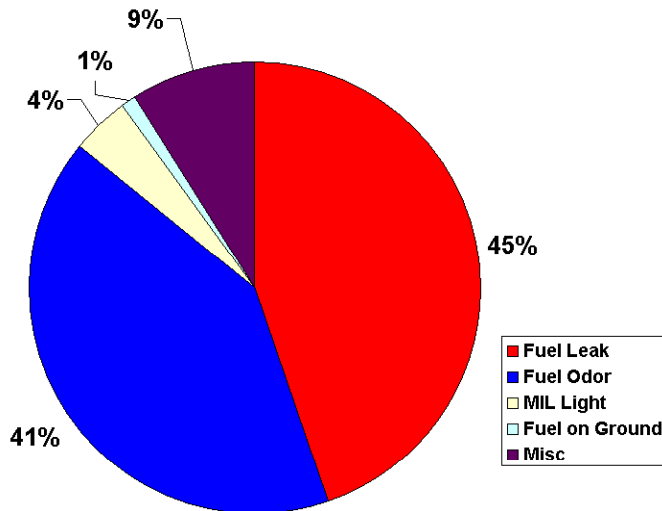


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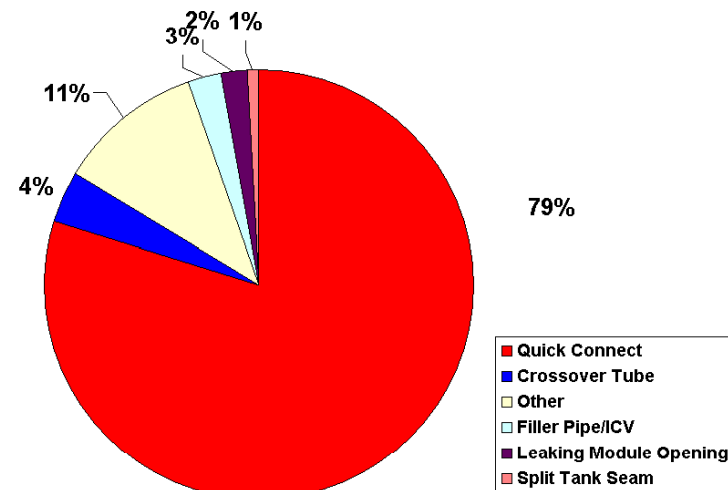
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		Prior to June 1, 2005		
	Total	Pre-Suspect	Suspect	Post
Corvette	478	81	305	92
XLR	103	16	77	10
		Summer 2005 Claims		
Corvette	308	14	247	47
XLR	42	1	37	4

2005 Summer Claims - Customer Complaint



2005 Summer Claims by Root Cause



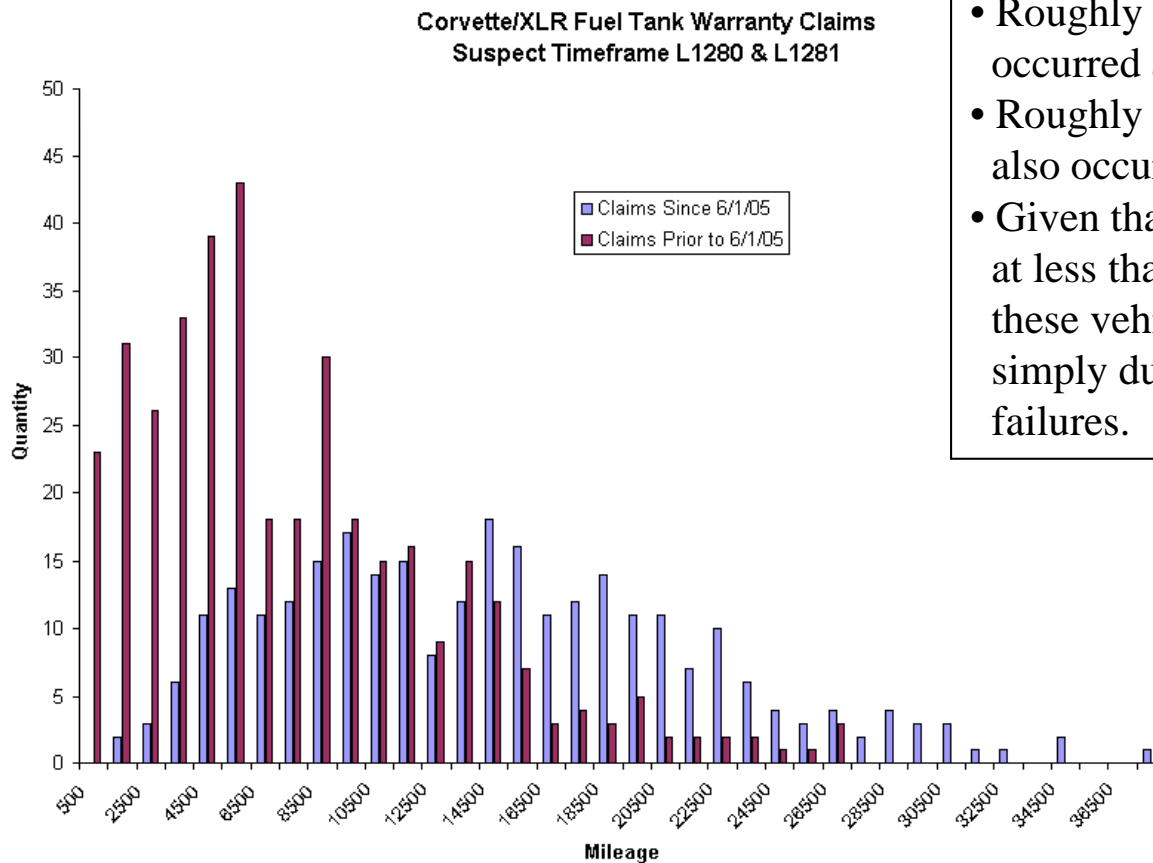


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Observations:

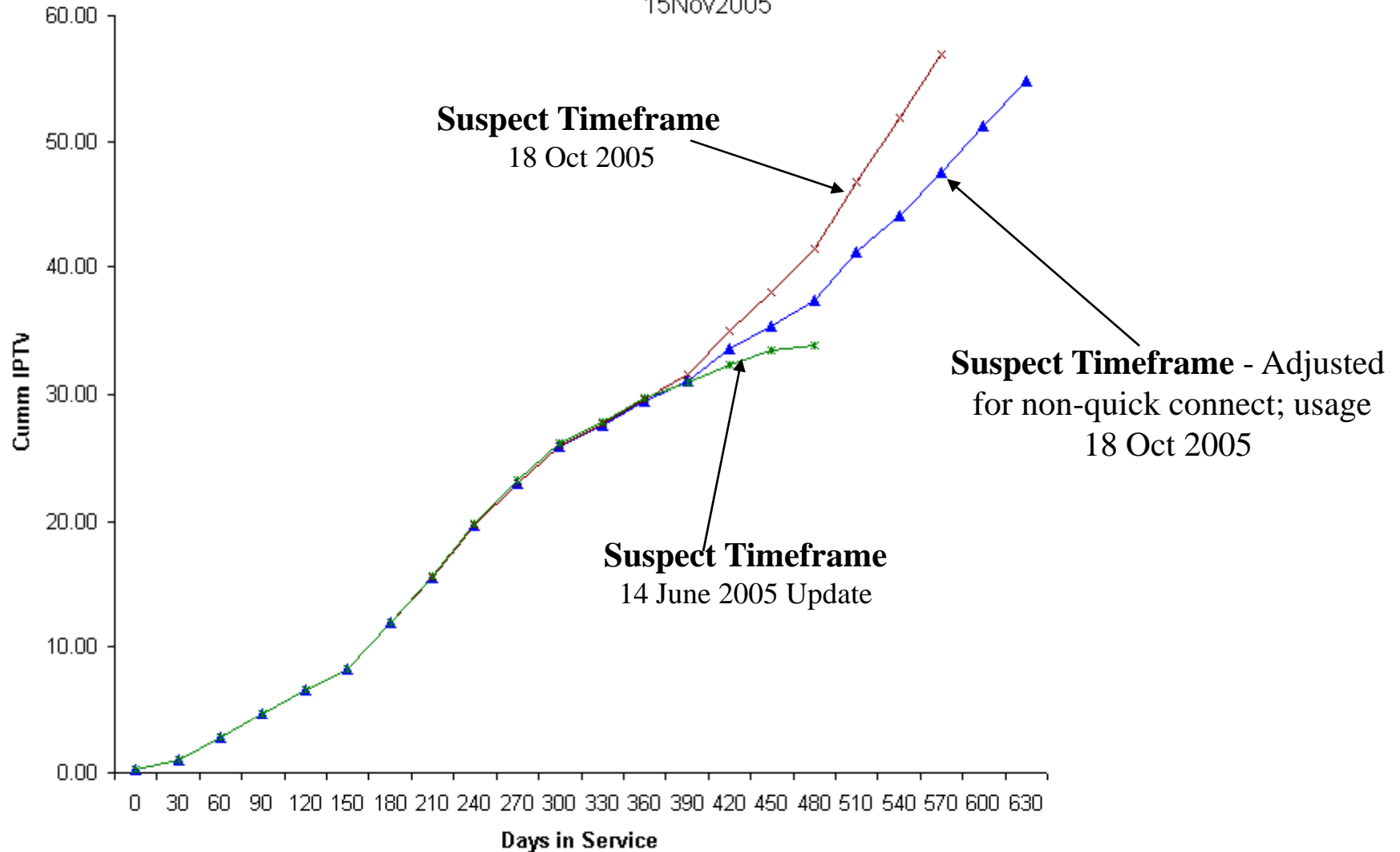
- Mileage (Usage) better represents the Quick Connect Issue as opposed to exposure.
- Roughly 18 claims with less than 5,000 miles occurred after 360 days; late as 660 days.
- Roughly 53 claims with less than 10,000 miles also occurred after 360 days.
- Given that roughly 70% of all claims occur at less than 12,000 miles, the data suggests that these vehicle claims took as long as 660 days simply due to usage and are not long term failures.



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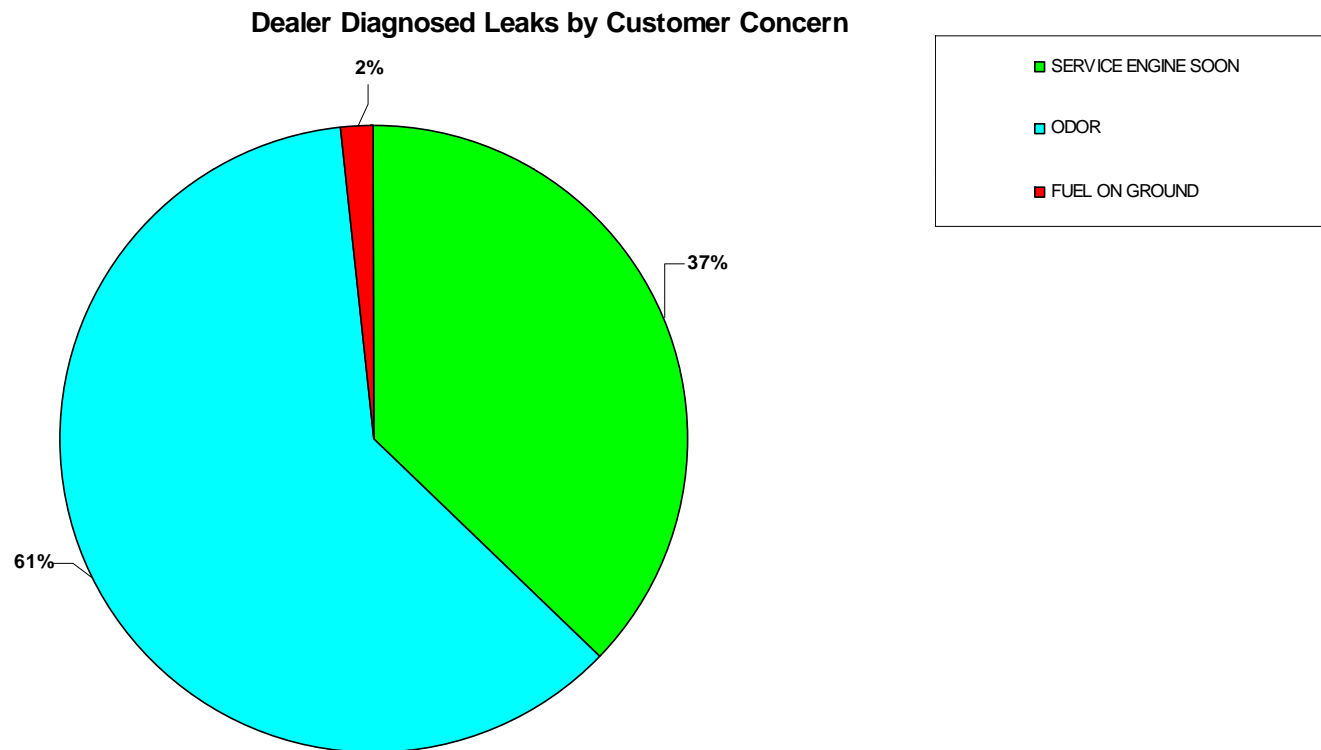
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2005 Warranty Analysis

Total Claims in 2005: 75

Dealer Determined Leaks: 62



Jan 05 through May 15, 2005

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Y car Gas Cap Replacement

