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# Overview

The intent of this document is to outline the current business rules within the existing funnels on the FirestoneCompleteAutoCare.com site.

# Revision History

|  |  |  |
| --- | --- | --- |
| **Date** | **Change Made** | **Author** |
| 11/26/2012 | Initial document created | Rob Streicher |
| 12/4/2012 | Clarified requirement 22.1.5. by adding “Used when you are within 3 hours of store closing or the store is currently closed.” | Rob Streicher |
| 12/5/2012 | Additional clarification on 22.1.5 by revising “Used when you are within 3 hours of store closing or the store is currently closed.” to “Used when you are requesting a next business day appointment and are within 4 hours of store closing or the store is currently closed.” | Rob Streicher |
| 12/10/2012 | Removed *“full state name is currently in dev but not yet in production”* from requirement 2 since the functionality is now in production. | Jody Banner |

# Existing Store Locator Business Logic

This section details the business logic used on the existing store selector. There are variations based upon where the functionality is accessed from (header control, schedule appointment etc…). Those changes are detailed out below.

## Store Locator- Header Control

1. Each search is logged in the database unless it fails front end validation.
2. Supports searching by zip code, 2 letter state abbreviation or full state name ~~(full state name is currently in dev but not yet in production).~~
3. Uses Google geo coding.
4. Validations:
   1. Valid 5 or 9 digit format.
      1. If integers, use value to perform store look up
      2. If not just integers, assume state entry
         1. If 2 characters, assume state abbreviation
         2. If more than 2 characters, assume full state name
         3. Check database for matching state value
            1. If invalid state entry, message user.
            2. If valid, proceed with store search

Validates that state entered has stores

Yes= Return all stores for the state

No= Presents displayMap.action page with no store found message.

## Store Locator- displayMap.action page

1. Each search is logged in the database unless it fails front end validation.
2. In addition to zip code and state, supports search by street address.
   1. If address entered with no state or zip code, message user that state and/or zip code is required.
   2. If address and city entered with no state or zip, message user that state and/or zip code is required.
   3. If address, city and state entered, display stores within 250 radius in ascending order by radius (30 store maximum).
   4. If address, city, state & zip code entered, display stores within 250 mile radius in ascending order by radius (30 store maximum).
   5. If address and state entered, display stores within 250 mile radius in ascending order by radius (30 store maximum).
   6. If address and zip entered, display stores within 250 mile radius in ascending order by radius (30 store maximum).
   7. If city only, message user that state and/or zip code is required.
   8. If city and state, return stores within 250 mile radius in ascending order by radius (30 store maximum).
   9. If city, state and zip code entered, display stores within 250 mile radius in ascending order by radius (30 store maximum).
   10. If city and zip code entered, display stores within 250 mile radius in ascending order by radius (30 store maximum).
   11. If state only entered, display all stores for state with no radius information (no limit on number of results).
   12. If state and zip code entered, display stores within 250 mile radius in ascending order by radius (30 store maximum).
   13. If zip code only entered, display stores within 250 mile radius in ascending order by radius (30 store maximum).
3. Uses Google geo coding.

## Select Store-Schedule Appointment- Classis Funnel

1. Retrieve stores for selected city and state.
   1. No geo coding is used since the only cities allowed for selection are cities that have a store.
2. Display in ascending order by radius.

## Select Store-Schedule Appointment- New Funnel

1. Each search is logged in the database unless it fails front end validation
2. Uses Google for geo coding of zip code, state or address used.
3. If zip code entered, validate format as valid 5 or 9 digit zip code.
   1. Display stores within 100 mile radius in ascending order by radius (10 store maximum).
4. If state entered, retrieve all stores for state and display first 10 stores returned (database will return all stores).
5. If address, display first 10 stores returned (allows address with no state or city).

## Change Store- Service/Product Funnels

1. Initial search saves the 10 closest stores based on zip code entered.
   1. Radius for store is 100 miles based upon zip code.
2. Change store redisplays the same 10 stores saved during the initial search in ascending order by radius.

## Las Vegas Zip Code Exception

1. If the user enters a Las Vegas zip code, they are redirected to the Las Vegas page.
   1. If searching by Las Vegas city name, the redirect does not happen.

# Existing Schedule Appointment Business Logic

## Vehicle Information

1. Vehicle selection requires:
   1. Year (required). Valid values are:
      1. Low date= current year minus 29
      2. High date= current year plus one
   2. Make (required)
      1. Inactive until the year is selected.
      2. Field clears if a make is currently selected and the year is changed.
   3. Model (required)
      1. Inactive until the make is selected.
      2. Field clears if model is selected and the year or make is changed.
   4. Submodel (required)
      1. Inactive until model is selected.
      2. Field clears if sub model is selected and the year, make or model is changed.
   5. TPMS (required) Defaults are:
      1. Model year 2007 or earlier defaults to yes and cannot be changed if TPMS is standard (based on Mitchell data).
      2. Model year 2007 or earlier defaults to no and can be changed if TPMS is not standard (based on Mitchell data).
      3. Model year 2008 defaults to yes and the user cannot change it.
      4. If the TPMS designation has been changed by the user, it returns to the default if the year, make, model or sub model is changed.
   6. Mileage (required)
   7. Year, make, model, submodel are defaulted if entered as part of a search in a different funnel and the user selects to schedule an appointment from the quote page.

## Service Selection

1. Service selection requires user to select at least one service type.
   1. If coming from another funnel (tires, alignment, oil etc…), the service type for the funnel is defaulted.
2. Comments box is pre-populated with the quote ID and details if coming from a quote page.
3. User can add comments, including the ability to modify or delete the defaulted quote data.

## Valid Appointment Time Selection

1. Requires at least two appointment time requests.
   1. The schedule appointment redesign developed a table structure that allows the valid appointment times for selection to be updated on the back end with no recoding. Valid times are determined by the following tables/rules:
      1. numberOfEligibleDays: Defines the number of days from today that an appointment time may be requested (current day is day 1).
         1. Current value= 30
      2. noSameDayAppointment: Defines the days for which same day appointments cannot be requested.
         1. Current value:
            1. FCAC= Saturday & Sunday
            2. TP= Accepts same day appointments
      3. latestEligibleAppointmentTime: Defines the minimum number of hours prior to store close that an appointment can be scheduled. Ex: If a store closes at 6 pm and this rule is set to a value of ‘1’, 5 pm will be the latest appointment time available.
         1. Current value= 1 hour prior to store closing.
      4. nextEligibleAppointmentTime: Defines the number of hours from the current time that an appointment can be scheduled. Ex: If the current time is 1 pm and this rule is set to a value of ‘4’, 5 pm will be the next or first available time
         1. Current value= 4 hours from the current time (will result in next day if the store closes in less than 5 hours because of the latestEligibleAppointmentTIme value).
      5. hoursAfterOpen: Defines the number of hours to add to the store’s opening time when necessary. Used when you are requesting a next business day appointment and are within 4 hours of store closing or the store is currently closed. Ex: If today is July 4 and July 5 is a normal business day and this rule is set to a value of ‘4’, the first available time on July 5 will be 4 hours after the store opens.
         1. Current value= 4 hours after store opening
      6. hoursBeforeClose: Defines the number of hours prior to store close that we shift to the next day. Used in conjunction with latestEligibleAppointmentTime to allow MAI’s 3 hour requirement. Ex: If this value is set to 4 and the latestEligibleAppointmentTime is set to 1, we will default to the next day 5 hours before store close
         1. Current value= 4 hours prior to store close.
      7. appointmentInterval: Defines the interval in which appointment times are generated, in minutes. Ex: An entry of ‘15’ will result in appointment times being generated in 15 minute increments
         1. Current value= 15 minute increments
      8. minimumBetweenAppointments: Defines the minimum number of hours between appointments. Ex: An entry of ‘3’ will require at least 3 hours between appointment times
         1. Current value= 3 hours between appointments
      9. appointmentRuleReload: Defines the number of hours between reload of rules (caching). Ex: An entry of ‘8’ will refresh the business rule cache every 8 hours
         1. Current value= 8 hours.
      10. noWeekendAppointmentsPriorToNoon: Defines if multiple appointments can be made prior to noon. 1= multiple appointments are not allowed prior to noon, 0 or deleting the record means multiple appointments prior to noon can be requested
          1. Current value= No multiple appointments prior to noon on Saturday or Sunday.
   2. The valid appointment times are based upon the holiday rules in the store\_holiday and store\_holiday\_hours tables.
      1. If the date is a holiday and there is a record in the store\_holiday\_hours table, the store will be considered open on the date.
      2. If the date is a holiday and there is no record in the store\_holiday\_hours table, the store is considered closed on the date.
   3. The valid appointment times are calculated on the local store time.
      1. The time of the user request is converted to the local store time and the valid appointment time logic is applied to the store’s hours.
   4. The same date and time cannot be selected more than once.
   5. The rules may be managed by site, store type and day of week

## Personal Information

1. First Name (required)
2. Last Name (required)
3. Address (required)
4. City (required)
5. State (required)
6. Zip (required)
7. At least one of the following:
   1. Daytime Phone
   2. Evening Phone
   3. Cell Phone
8. Email Address (required)
9. Email promotion opt in, defaulted to unchecked (no)

## Thank You Page

1. Displays confirmation message telling the user that they will be contacted within 24 hours.
2. Contains a link to view scheduled maintenance.

# Search by Size Tire Funnel Logic

## Search by Size Widget

1. Search by tire size has the following:
   1. Zip code (required).
      1. Must be valid 5 digit code that exists in the ZIP\_CODE\_DATA table, or which can be verified by geocoding.
   2. Cross section
   3. Aspect ratio
   4. Rim size

## Search by Size Rules

1. Using the input from the size widget, select tires from the CONFIGURATION table that match the provided CROSS\_SECTION, ASPECT, and RIM\_SIZE.
2. No further business rules apply, other than tire suppression

# Search by Vehicle Tire Funnel Logic

## Search by Vehicle Widget

1. Search by vehicle has the following:
   1. Zip code (required).
      1. Must be valid 5 digit code that exists in the ZIP\_CODE\_DATA table, or which can be verified by geocoding.
   2. Year (required). Valid values are:
      1. Low date= current year minus 29
      2. High date= current year plus one
   3. Make (required)
      1. Inactive until the year is selected.
      2. Field clears if a make is currently selected and the year is changed.
   4. Model (required)
      1. Inactive until the make is selected.
      2. Field clears if model is selected and the year or make is changed.
   5. Sub Model (required)
      1. Inactive until model is selected.
      2. Field clears if sub model is selected and the year, make or model is changed.
   6. TPMS (required)
      1. Defaults are:
         1. Model year 2007 or earlier defaults to yes and cannot be changed if TPMS is standard (based on Mitchell data).
         2. Model year 2007 or earlier defaults to no and can be changed if TPMS is not standard (based on Mitchell data).
         3. Model year 2008 defaults to yes and the user cannot change it.
         4. If the TPMS designation has been changed by the user, it returns to the default if the year, make, model or sub model is changed.

## Search by Vehicle Rules

1. Using the input from the vehicle widget, select one or more records from the FITMENT table. These records represent the wheels available for a given vehicle, and define the information below. CROSS\_SECTION, ASPECT, and RIM\_SIZE are the primary values used to look up tires in the CONFIGURATION table, but some of the other values factor in to the various business rules defined below. Always check store. All the tire information are retrieved from following table: CONFIGURATION,DISPLAY,CLASS,SEGMENT,TIREGROUP,TIRE\_WEBSOURCE,SPEED,SIDEWALL,BRAND,TECHNOLOGY,FACT\_JOIN,FACT,WARRANTY,MILEAGE, FITMENT:
   1. BASE\_VEH\_ID - A unique identifier for the vehicle. (Could have multiple BASE\_VEH\_ID in the FITMENT table).
   2. MAKE\_NAME
   3. MODEL\_YEAR
   4. MODEL\_NAME
   5. SUBMODEL
   6. STANDARD\_IND - 'S' for standard, 'O' for optional
   7. FRB - 'F' indicates that the wheel is used in the front. 'R' indicates that the wheel is used in the rear. 'B' indicates that the wheel is used in the both.
   8. VEHTYPE - 'VAN,' 'MVAN,' 'PASS,' 'TRK,' or 'SUV'
   9. SPEED\_RATING - '(Y),' 'H,' 'N,' 'NONE,' 'P,' 'Q,' 'R,' 'S,' 'T,' 'U,' V,' 'W,' 'Y,' or 'Z'
   10. CROSS\_SECTION - The meaning of this column appears to vary according to the tire geometry notation used. In some cases, this appears to represent the diameter of the wheel, in inches (for example, in the case of a Hummer H1). In other cases, it appears to represent the width of the wheel in inches. In other cases, it appears to represent the width of the wheel in millimeters. In some cases, this value is a letter. See TIRE\_SIZE.
   11. ASPECT - The meaning of this column appears to vary according to the tire geometry notation used. It may represent the cross section of the wheel, in inches, multiplied by 10. It may represent the height of the sidewall, expressed as a percentage of the width. See TIRE\_SIZE.
   12. RIM\_SIZE - The meaning of this column appears to vary according to the tire geometry notation used. It may represent the rim size of the wheel, in inches. It may represent the rim size of the wheel, in inches, multiplied by 10. it may represent the rim size of the wheel in millimeters. See TIRE\_SIZE.
   13. NOTES - Any special comments about the tire.
   14. TIRE\_SIZE - The size of the tire, expressed using a variety of different types of notation. The notation used should provide a guide to interpreting the meanings of CROSS\_SECTION, ASPECT, and RIM\_SIZE.
   15. LOAD\_INDEX - A numeric code, specified by ETRTO (ISO-Metric) standards, indicating the maximum weight each tire can carry.
   16. LOAD\_RANGE - An alphabetic code, specifying the ply rating of the tire. Many records do not specify LOAD\_RANGE.
   17. TPMS\_IND - '1' indicates a Tire-Pressure Monitoring System, '0' indicates the absence of one.
   18. FRONT\_INF - Presumably, this indicates the recommended tire pressure, expressed as psi. However, some records specify 'RR,' which appears to mean "use the value for the rear tires.”
   19. REAR\_INF - Presumably, this indicates the recommended tire pressure, expressed as psi. However, some records specify 'FF,' which appears to mean "use the value for the front tires.”
   20. MAKE\_ID
   21. MODEL\_ID

## Speed Rating Rules

1. If the vehicle speed rating is not NULL or empty then:
   1. The speed rating from low to high is {"Q","R","S","T","U","H","V","Z","W","Y","(Y)"}.
   2. SPEED\_VALUE {"99","106","112","118","124","130","149","149+","168","186","186+"}
   3. The speed rating will fall in a range of the vehicle speed rating beginning with the highest level, in this case, “(Y)”. For example, for a 2005 Subaru Forester the speed rating is H, falling in the range of: {"(Y)","Y","W","Z","V","H"}.
   4. The speed rating will be dropped one level if the vehicle type is Passenger and the Load Index is NULL or if the Load Index is under 100.
   5. Drop one speed rating lower on LT or flotation sizes regardless of load index.
   6. The following exceptions will be made to the speed rating rules:
      1. Y, W, Z can’t go down one level
      2. H -> U is allowed
      3. H -> T is allowed (technically two levels)
      4. U -> T is allowed
      5. (Y) –> Y is allowed
2. If the vehicle speed rating is NULL or is empty, then speed rating checking is not needed.
3. Winter tires are shown regardless of speed rating.

## Load Range Rules

1. If the load range not “SL”,
   1. if load range in ("XL","RE","RF")
      1. extra Load is true
      2. If tire Size in (P-metric or Euro-Metric)
         1. If Vehicle type in ("TRK","VAN","MVAN"),
            1. load range =’D’ OR load range =’E’
   2. If load range not in ("XL","RE","RF") and not “SL”
      1. if load range index of "|F|E|D|C|B|"
         1. load range will be >= the vehicle load range and <= F
2. If the load range is “SL”,
   1. Load range is null OR load range>=B
3. if load range ="SL" AND load Index not null and not empty
   1. add winter tire is true
   2. if vehicle type in ("TRK","VAN","MVAN")
      1. load index>=0
   3. if vehicle type not in ("TRK","VAN","MVAN")
      1. load index >= the vehicle load range

**Explanation of above rules:**

1. If the vehicle load range is not NULL or not empty and if the vehicle load range is Extra Load (RF or XL), then the load range either equals RE or equals XL.
2. If the vehicle load range is not Extra Load, then the tire load range will be >= the vehicle load range and <= F – and it will also pull all of the snow tires in a load range from low to high: B,C,D,E, F.
3. If the vehicle requires Euro-Metric, then all LT-Metric tires will be excluded.
4. If the vehicle requires Euro-Metric, and if the load range is Extra Load and Inflation is >= 41, or the load range is not Extra Load and Inflation is > 35, all P-Metric tires will be excluded.
5. if the vehicle load range is NULL or SL, then the tire load range must be null or it must be greater than or equal to 'B.’

## Metric Definitions

1. Euro-Metric: Any tire size that does not start with P or LT and that does not have a decimal (245/75R16).
2. P-Metric: Any tire size that starts with P (P245/75R16)
3. LT-Metric: Any tire size that starts with LT (LT245/75R16C)
4. Flotation: Any tire size with a decimal (31x10.50R15C)

## Euro-Metric/P-Metric Rules

1. If the tire size in ("P-Metric","Euro-Metric")
   1. Label NOT LIKE ‘%.%’ ( no dot inside; dot=Flotation Index)
2. If the vehicle requires Euro-Metric, then exclude LT-Metric tires.
3. If the vehicle requires Euro-Metric, then show P metric tires with the following exceptions:
   1. If the vehicle has a load range of Extra Load and Inflation >= 41, all P-Metric tires will be excluded.
   2. If the vehicle load range is not Extra Load and Inflation is > 35, all P-Metric tires will be excluded.
4. If the vehicle requires P-Metric, then show Euro-Metric and LT-Metric but not flotation.

## Euro-Metric Rule

1. If tire size is “Euro-Metric”
   1. Label NOT LIKE ‘LT’
   2. If ( mfgrInf > 35 AND not extra Load ) OR ( extra Load AND mfgrInf > 41 )\*\*\*
   3. Label NOT LIKE ‘P%’

\*\*\* Definition of mfgrInf ( Default setting using front tire info, If front Info Number < rear Info Number, using rear info number )

## Load Index Rules

1. If the vehicle load range is NULL or empty, but the Load Index is not NULL or empty, then the tires will have a load index >= the vehicle Load Index.

## LT Metric and Flotation Tires

1. If tire size is in ("LT-Metric","Flotation"):
   1. if load range = "XL”
      1. Winter tire load range =’XL’ OR load range =’RE’
   2. If load range =”RE”
      1. Winter tire load range =’RE’
   3. If Load range =”SL”
      1. Winter tire load range is null or load range >=’B’
   4. If load range not in (“XL”,”RE”,”SL”
      1. Winter tire load range >= the vehicle load range
   5. If load index is not null and not empty
      1. Load index >= the vehicle load index
   6. Label NOT LIKE ‘P%’
   7. Label LIKE ‘LT%’ OR Label LIKE ‘%.%’
2. If the vehicle display requires LT-Metric or Flotation:
   1. The load range must be >= the vehicle load range (can display any load index)
   2. Do not show P-metric and Euro-metric tires.

## Tire Group Rules

1. If the vehicle type is Passenger, 'Light Truck Tires' and 'Snow Tires-LT' will be excluded.
2. Tire Group {Passenger Tires, Light Truck Tires, Performance, Winter}

## Matched Set Rules

1. Matched sets are based on Display ID (i.e. a front tire and a rear tire with the same Display ID).
2. If vehicle requires SL then display SL and XL in matched sets, but both front and rear tires should be either SL or XL with same speed rating.
3. If vehicle requires XL then display only XL in matched sets, but both front and rear tires should be XL with same speed rating.
4. If the front tires have SL and the rear tires have XL, then the following combinations options are OK:
   1. Front = SL, rear = XL
   2. Front = XL, rear = XL
5. If the front is XL and the rear is SL, the following combinations are OK:
   1. Front = XL, rear = SL
   2. Front = XL, rear = XL
6. If the front and rear are both SL, the following combinations are OK:
   1. Front = SL, rear = SL
   2. Front = XL, rear = XL
7. If front and rear are both XL, only the following is allowed:
   1. Front = XL, rear = XL

## Snow Tire Rules

1. If the vehicle requires P-Metric/Euro-Metric snow tires:
   1. Display P-metric, Euro-metric, and LT metric tires.
2. If vehicle requires SL then display SL and XL in matched sets, but both front and rear tires should be either SL or XL with same speed rating.
3. If vehicle requires XL then display only XL in matched sets, but both front and rear tires should be XL with same speed rating.
   1. Otherwise, the load range will be >= XL (any speed rating)

Note: Note: SL = Load Range is NULL or Blank

1. If the vehicle requires LT-Metric or Flotation snow tires:
   1. The load range must be >= the vehicle load range (any speed rating and any load index).
   2. Do not show P-metric and Euro-metric tires.

## Optional Sizes

1. If the vehicle posted into the search has standard and optional sizes, force user to select which option they are interested in.

## Filter Options

1. Filter results by brand
2. Filter results by price
3. Filter results by tire type (SUV/CUV, Winter etc…)
4. Filter results by size

## Sort Options

1. Results can be sorted by:
   1. Price low to high (default)
   2. Price high to low
   3. Brand (A-Z)
   4. Mileage Warranty (descending order by mileage)
   5. Wet (descending order by wet rating)
   6. Dry (descending order by dry rating)
   7. Comfort (descending order by comfort rating)
   8. Winter/Snow (descending order by winter/snow rating)
   9. Treadwear (descending order by treadwear rating)

## Quantity Selection

1. Default quantity to 4 tires.
2. Allowable quantities for selection are 1, 2, 3, 4, 5, 6, 7, 8

## Vehicle Data

1. The following vehicle data is displayed on the results and quote pages:
   1. Size
   2. Speed Rating
   3. Load Range
   4. Load Index

## Quote

1. Allows personalization of the quote by entering first and last name.
   1. Entry is on the results page
2. Pricing has the following line item calculations:
   1. Computerized wheel balance
   2. Installation (listed as free)
   3. Tire/wheel alignment check (listed as free) Article= 7009886
   4. TPMS valve service kit pricing (if vehicle has TPMS)
   5. TPMS valve service kit labor (if vehicle has TPMS)
   6. Scrap tire recycling charge of $10
   7. Round up article allowing the user to donate.
   8. Quote ID
   9. Quote expiration date (30 days from the current date)
3. Print button allowing the user to print the quote in printer-friendly format.
4. Print & Schedule appointment
   1. Print manager opens first.
   2. After print manage closes, user is taken to the schedule appointment funnel with the store, vehicle data and service type defaulted and the quote information pre-populated in the comments.
5. Email quote allowing the user to email the quote.
   1. Email includes a link back to the quote.
   2. Expired quotes are still viewable when retrieved.

# Existing Alignment Funnel Logic

## Search Widget

1. Zip code (required). Must be a valid 5-digit zip code.
2. Year (required). Valid values are:
   1. Low date= current year minus 29
   2. High date= current year plus one
3. Make (required)
   1. Inactive until the year is selected.
   2. Field clears if a make is currently selected and the year is changed.
4. Model (required)
   1. Inactive until the make is selected
   2. Field clears if model is selected and the year or make is changed.
5. Sub Model (required)
   1. Inactive until model is selected.
   2. Field clears if sub model is selected and the year, make or model is changed.

## Results

1. Displays the same 2 article IDs regardless of vehicle:
   1. Standard alignment (article ID 7009500)
   2. Lifetime alignment (article ID 7009527)

## Quote

1. Allows personalization of the quote by entering first and last name.
   1. Entry is on the results page
2. Pricing has the following line item calculations:
   1. Alignment check (listed as free)
      1. Article ID= 7009886
   2. Round up article allowing the user to donate.
   3. Quote ID
   4. Quote expiration date (30 days from the current date)
3. Print button allowing the user to print the quote in printer-friendly format
4. Print & Schedule appointment
   1. Print manager opens first.
   2. After print manage closes, user is taken to the schedule appointment funnel with the store, vehicle data and service type defaulted and the quote information pre-populated in the comments.
5. Email quote allowing the user to email the quote.
   1. Email includes a link back to the quote.
6. Expired quotes are still viewable when retrieved.

# Existing LOF Funnel Logic (November 2012 Release)

## Search Widget

1. Year (required). Valid values are:
   1. Low date= current year minus 29
   2. High date= current year plus one
2. Make (required)
   1. Inactive until the year is selected.
   2. Field clears if a make is currently selected and the year is changed.
3. Model (required)
   1. Inactive until the make is selected
   2. Field clears if model is selected and the year or make is changed.
4. Mileage Range (always active). Valid options:
   1. 0-74,999
   2. 75,000+
   3. High mileage blend only returned if mileage of 75,000+ is selected.
5. Zip code (required). Must be a valid 5-digit zip code.

## Results

1. Display any oil article IDs that match the recommended viscosity from OATS.
   1. High mileage only displays if the user entered mileage of 75,000+
   2. If a store is matched to the zip code but there are no oil results, message user to contact local store.
   3. If there is no store based on the zip code entered, land user on the store not found page.
2. Pricing calculated as:
   1. Up to 5 quart oil article ID (store level)
   2. Oil change labor (store level)
   3. Filter price (always $3.99 but can be at the store level)
   4. Extra quarts if the capacity for the car is greater than 5 quarts (store level).
      1. Calculated by each 1/10 quart over the 5 quart base price.
   5. Calculation of national coupon offer.
3. Vehicle blacklist table is used to filter out results for vehicles that do not fit the $3.99 filter price.
   1. Table is TBD as of 10/31/2012
   2. Users searching a blacklisted vehicle are shown the no results page.

## Quote

1. Allows personalization of the quote by entering first and last name.
   1. Entry is on the quote page.
2. Print button allowing the user to print the quote in printer-friendly format
3. Print & Schedule appointment
   1. Print manager opens first.
   2. After print manage closes, user is taken to the schedule appointment funnel with the store, vehicle data and service type defaulted and the quote information pre-populated in the comments.
4. Email quote allowing the user to email the quote.
   1. Email includes a link back to the quote
5. Pricing has the following line item calculations:
   1. Oil change price (oil article ID + oil change labor + filter)
   2. Extra quarts (if applicable)
   3. Discount line item (if applicable)
   4. Round up verbiage allowing the user to donate.