Content Developers Kit

MOTOR Quick-Lube (AAIA ACES)

V1.4

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1 Glossary

Application: An application can consist of vehicle information, fluid type, and position and non-vehicle qualifiers.

Capacity: The amount of fluid required by the specified system. Capacity is either listed as a single specification or a range. There are sometimes multiple Capacities with different units listed for a single MOTOR_QuickLube Application.

Fluid: Specifications relating to the fluid including Grade, Viscosity, and Part information.

Grade: The grade or type of fluid required for the application. In some cases, multiple grades are given as options.

MOTOR Operations: MOTOR's classified list of standardized operation names. These operation names are classified according to vehicle systems and assemblies. For products implementing this standard, this name is used whenever an operation name is required.

MOTOR Qualifiers: MOTOR Qualifiers are standardized phrases used to distinguish between two or more applications that apply to the same Vehicle, Specification, and Position. MOTOR Qualifiers are organized in a three-tier categorization.

MOTOR QuickLube: For the purposes of this CDK, MOTOR QuickLube is a product which provides capacity and fluid specification data for a set of fluids commonly serviced in a preventative maintenance service environment. This data is often packaged with additional related specification data.

Part: For the purposes of this CDK, Part data is a reference to specification data relation to the actual fluid from the perspective as an item in inventory. This data can include Specification Standard, Trade Name, OE Part Number, and the PCdb Part Type identifier that would likely be used if listed in an ACES based catalog.

Unit: Unit of measure

VCdb Attribute: AAIA VCdb Attribute names used to define vehicle configurations. These names match the names of elements defined in the ACES 3.0 XML Schema.

2 Business Rules

1) **Business Rule: (MOTOR_QuickLube)** Each MOTOR_QuickLube record will have a PositionID value. A value of 1 indicates that Position is not applicable to the specification**.**

2) **Business Rule: (MOTOR_QuickLube_VCDB_Attribute_xRef**) Each MOTOR_QuickLube record will relate to 0 or one of each VCdb vehicle attribute set. If, for example, a vehicle has three sub models available and a specification applies to two of the sub models; that specification will be repeated in two different app records, one for each sub model. VCdb attributes such as DriveType and TransmissionMfrCode will be found in VCdb, however when navigating via the VehicleToEngineConfig table, they should not also be linked and/or validated against related attribute table. You must program your systems to accommodate the attributes delivered by MOTOR, and not link and/or validate them against the corresponding VehicleToTransmission and VehicleToDriveType tables within VCdb

3) **Business Rule: (MOTOR_QuickLube_MOTOR_Operation_Taxonomy_xRef)** MOTOR QuickLube to MOTOR Operations relationships are created to link QuickLube to datasets using MOTOR Operation values including PMSST and GEN5 Labor. These relationships are created and maintained on a global level and exploded to each MOTOR_QuickLube record based on the MOTOR_QuickLube Description. The MOTOR Operations related to a MOTOR_QuickLube Description will be consistent regardless of vehicle. Additionally, a MOTOR Operation being related to a MOTOR_QuickLube record does not

necessarily mean that that Operation will be found for that vehicle in our other products. This relationship is on an “if equipped” basis.

4) **Business Rule: (MOTOR_QuickLube_MOTOR_Qualifier_xRef**) In some cases VCdb will not have all values of an attribute filled out for a BaseVehicle. If the OE data calls out a qualifier that relates to a VCdb attribute that has not been populated yet or VCdb has a value of “-“, “N/A” or “U/K” for that attribute, the qualifying information will be represented as a MOTOR Qualifier instead. You must display the information found within the MOTOR Qualifier for the end user to determine the appropriate vehicle configuration.

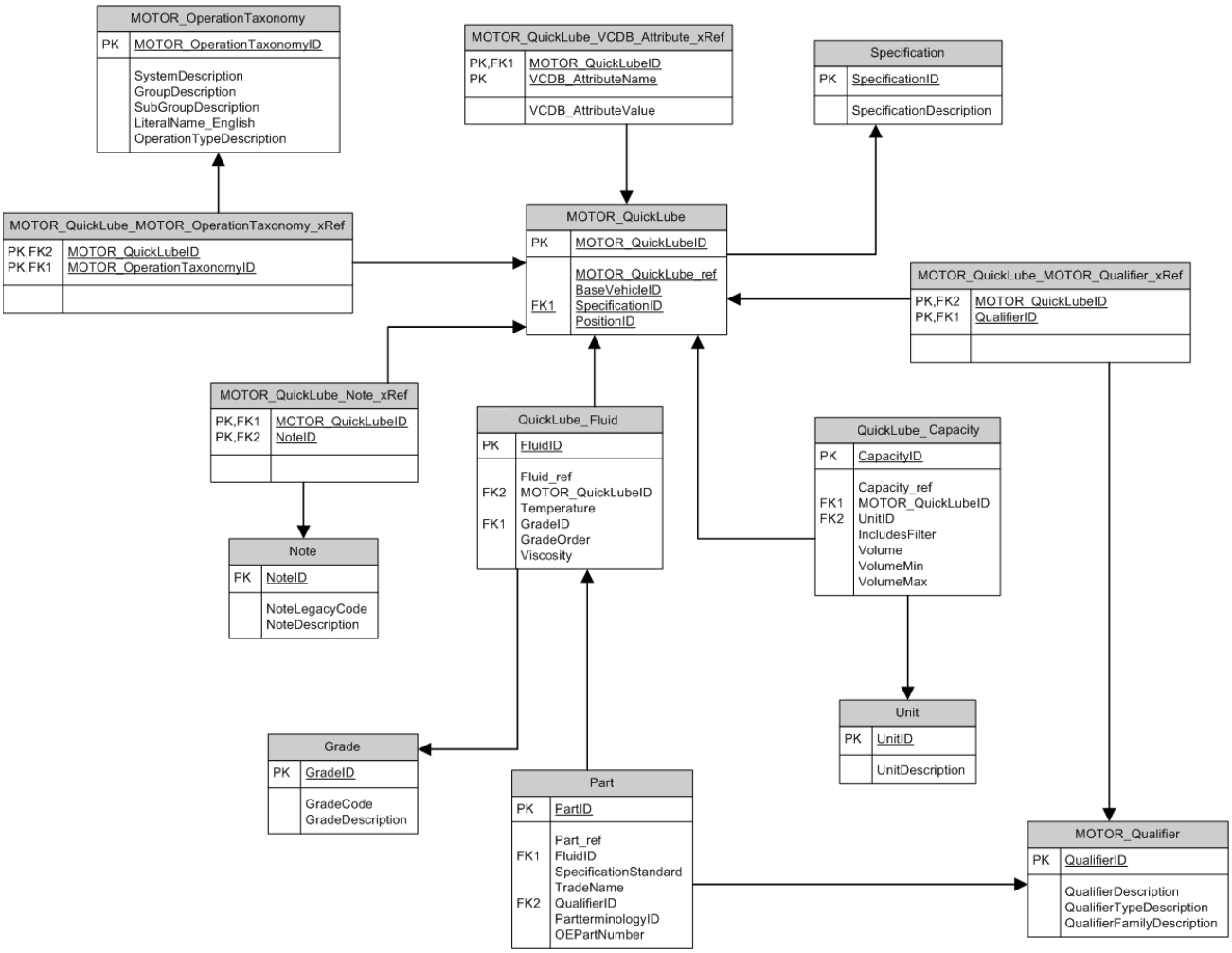
5) **Business Rule: (MOTOR_Qualifier)** Each Qualifier description will be unique.

6) **Business Rule: (MOTOR_OperationTaxonomy)** Each LiteralName_English value is unique and can be used to represent the entire taxonomy path.

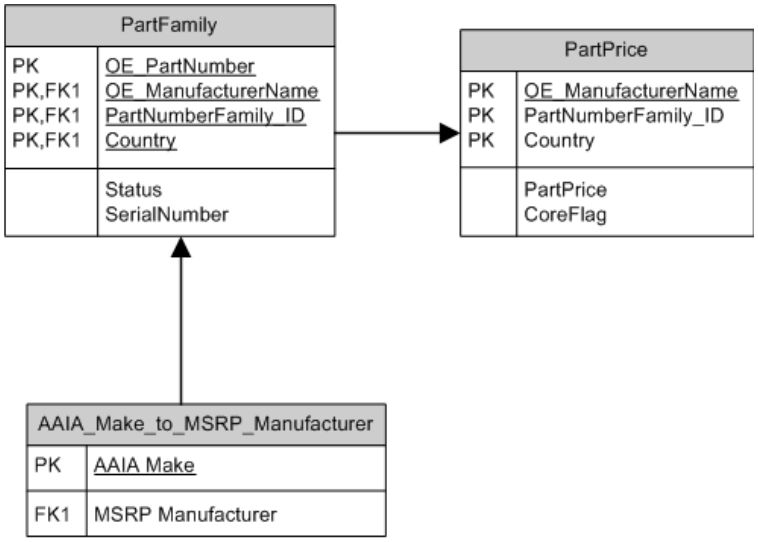
7) **Business Rule: (Part)** OEPartNumber is included when the information provided by the OE indicates that the Part Number is required in order to select the proper fluid for the specified application.

3 Data Model

3.1 MOTOR QuickLube Specification Database



3.2 MOTOR QuickLube Part Pricing Database



4 Data Dictionary

4.1 QuickLube_Capacity

Provides Capacity specifications for the related MOTOR_QuickLube records. There can be multiple Capacity records for a MOTOR_QuickLubeID if each has a different UnitID or IncludesFilter value.

Name	Type	Size	Allow Nulls	Notes
CapacityID (pk)	Long Integer	4	No	
Capacity_ref	Long Integer	4	Yes	_ref values are used by MOTOR for issue diagnosis. They are not needed for end user implementation.
MOTOR_QuickLubeID	Long Integer	4	No	Reference to MOTOR_QuickLube table
UnitID	Long Integer	4	No	Reference to Unit table which lists unit of measure
IncludesFilter	Yes/No	1	Yes	Only used for Engine Oil to indicate if capacity includes or excludes engine oil filter capacity
Volume	Text	255	Yes	If Null, VolumeMin and/or VolumeMax will be populated
VolumeMin	Text	255	Yes	If Null, Volume or VolumeMax will be populated
VolumeMax	Text	255	Yes	If Null, Volume or VolumeMin will be populated

4.2 QuickLube_Fluid

Fluid specifications relating to the MOTOR_QuickLube table. There may be multiple Fluid records for a given MOTOR_QuickLubeID with differing Temperature, GradeID or Viscosity values.

Name	Type	Size	Allow Nulls	Notes
FluidID (pk)	Long Integer	4	No	
Fluid_ref	Long Integer	4	Yes	_ref values are used by MOTOR for issue diagnosis. They are not needed for end user implementation.
MOTOR_QuickLubeID	Long Integer	4	No	Reference to MOTOR_QuickLube table

Temperature	Text	255	Yes	Often expressed as a range. Temperature is degrees Celsius.
GradeID	Long Integer	4	No	Reference to Grade table
GradeOrder	Long Integer	4	Yes	When listed, Grades listed with the same MOTOR_QuickLubeID have a priority order with 1 being the highest priority. Please note that there may be multiple records with same MOTOR_QuickLubeID, GradeID, and Grade_Order but differing Viscosity values.
Viscosity	Text	255	Yes	Fluid viscosity

4.3 Grade

Listing of Grade Codes and Descriptions. Referenced by Fluid.

Name	Type	Size	Allow Nulls	Notes
GradeID (pk)	Long Integer	4	No	
GradeCode	Text	35	No	3 character code representing Grade.
GradeDescription	Text	255	No	Full description of Grade

4.4 MOTOR_OperationTaxonomy

MOTOR standardized listing of Operation names. This is the same list used in other MOTOR products including PMSST and GEN5 Labor.

Name	Type	Size	Allow Nulls	Notes
MOTOR_OperationTaxonomyID (pk)	Long Integer	4	No	
SystemDescription	Text	255	No	MOTOR Standard System description
GroupDescription	Text	255	No	MOTOR Standard Group description
SubGroupDescription	Text	255	No	MOTOR Standard SubGroup description
LiteralName_English	Text	255	No	MOTOR Standard Operation description. Each value is unique to the taxonomy. Represents all other fields. Normally used in GUI to represent Operation

OperationTypeDescription	Text	255	No	MOTOR Standard Operation type description. Normally used when filtering group Operations by Type such as Test, R&R, and Drain & Refill.

4.5 MOTOR_QuickLube

Core listing of QuickLube Applications. Each MOTOR_QuickLube represents a singular combination of BaseVehicle, VCdb Attribute set, MOTOR Qualifier set, Spec type, and Position. This is similar to the element App in the AAIA ACES delivery specification.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeID (pk)	Long Integer	4	No	
MOTOR_QuickLube_ref	Long Integer	4	Yes	_ref values are used by MOTOR for issue diagnosis. They are not needed for end user implementation.
BaseVehicleID	Long Integer	4	No	AAIA ACES VCDB Base Vehicle identifier. References the BaseVehicle table provided in VCdb
SpecificationID	Long Integer	4	No	References the Specification table. Indicates type of specification data.
PositionID	Long Integer	4	No	AAIA ACES PCdb Position identifier. References the Position table provided in PCdb.

4.6 MOTOR_QuickLube_MOTOR_OperationTaxonomy_xRef

Relates MOTOR Operations to MOTOR QuickLube records. This table is used for linking this product to other MOTOR products using the MOTOR Operation taxonomy.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeID (pk)	Long Integer	4	No	Reference to MOTOR_QuickLube table
MOTOR_Operation_TaxonomyID (pk)	Long Integer	4	No	MOTOR Operation Taxonomy identifier. References the Operation naming convention used in other MOTOR products including PMSST and GEN5 Labor.

4.7 MOTOR_QuickLube_Note_xRef

Relates MOTOR_QuickLube to the Notes that need to be displayed with the specification data.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeID (pk)	Long Integer	4	No	Reference to MOTOR_QuickLube table
NoteID (pk)	Long Integer	4	No	Reference to the Note table.

4.8 MOTOR_QuickLube_MOTOR_Qualifier_xRef

Relates MOTOR_QuickLube records to the MOTOR Qualifier values that apply. All related MOTOR_Qualifier values must apply in order for a MOTOR_QuickLube record to apply for the end user.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeID (pk)	Long Integer	4	No	Reference to MOTOR_QuickLube table
QualifierID (pk)	Long Integer	4	No	Reference to the Qualifier table.

4.9 MOTOR_QuickLube_VCDB_Attribute

Relates MOTOR_QuickLube records to the VCdb Attributes that apply. All related VCdb Attributes values must apply in order for a MOTOR_QuickLube record to apply for the end user.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeID (pk)	Long Integer	4	No	Reference to MOTOR_QuickLube table
VCDB_AttributeName (pk)	Text	255	No	VCdb Attribute, such as EngineBase and EngineVIN, as would be represented in the ACES XML schema.
VCDB_AttributeValue (pk)	Text	255	No	id value of the listed VCdb Attribute

4.10 Note

Additional information that needs to be displayed to the end user when reviewing related specifications.

Name	Type	Size	Allow Nulls	Notes
NoteID (pk)	Long Integer	4	No	

NoteLegacyCode	Text	3	No	Three character code representing the note. Used in legacy MOTOR QuickLube products.
NoteDescription	Text	1000	No	Full text description of note

4.11 Part

Child of Fluid. Lists information pertaining to Fluid that is required to select the right item. There may be multiple records FluidID. Generally multiple records for a FluidID indicate different sizes are available which will be defined by the QualifierID.

Name	Type	Size	Allow Nulls	Notes
PartID (pk)	Long Integer	4	No	
Part_ref	Long Integer	4	Yes	_ref values are used by MOTOR for issue diagnosis. They are not needed for end user implementation.
FluidID	Long Integer	4	No	Reference to the Fluid table
Specification Standard	Text	255	Yes	
Trade Name	Text	255	Yes	
QualifierID	Long Integer	4	Yes	Reference to Qualifier table.
PartterminologyID	Long Integer	4	No	AAIA ACES PCdb Part type identifier
OE_Part_Number	Text	255	Yes	Current OE formatted part number

NOTE: There are a select number of cases where the OEM will reference OE Part Numbers for fluid provided by a different OEM. In these cases the OE Part Number will still be provided but pricing will not.

4.12 MOTOR_Qualifier

MOTOR standardized list of qualifiers.

Name	Type	Size	Allow Nulls	Notes
QualifierID (pk)	Long Integer	4	No	
QualifierDescription	Text	255	No	MOTOR Qualifier description. Each value is unique within the table. This is the only value typically used in a GUI.
QualifierTypeDescription	Text	255	No	MOTOR Qualifier type description
QualifierFamilyDescription	Text	255	No	MOTOR Qualifier family description

4.13 Unit

Unit of measure.

Name	Type	Size	Allow Nulls	Notes
UnitID (pk)	Long Integer	4	No	
UnitDescription	Text	255	No	Unit of measure; such as Liter, Gallons, and ounces.

4.14 Specification

Provides the description for the specification being provided.

Name	Type	Size	Allow Nulls	Notes
SpecificationID	Long Integer	4	No	Specification unique identifier.
SpecificationDescription	Long Integer	4	No	Textual description of the specification type

4.15 PartFamily

Used for Part pricing. Provides the supersession of OE Part Numbers contained in the Part table. OE Part Numbers listed with the same OE_ManufacturerName and PartNumberFamily_ID as an OE Part Number listed in Part is a member of the same supersession family. The record with the highest value for SerialNumber is the most current OE Part Number for the supersession family.

Our parts pricing process first looks at the US price file to see if the Part Number can be found and uses that information when available. If US pricing data is not found, our process will then look at the equivalent Canadian pricing data and will use that data if found.

Name	Type	Size	Allow Nulls	Notes
OE_PartNumber (pk)	Text	255	No	OE Part Number found in Part table.
OE_ManufacturerName (pk)	Text	255	No	Manufacturer name. Referenced in AAIA_Make_to_MSRP_Manufacturer table

PartNumberFamily_ID (pk)	Long Integer	4	No	PartFamily identification number. A Part Family is a collection of OE Part Numbers that are part of the same supersession trail
Country (pk)	Text	255	No	Indicates the country of origin for the Part Price. (US or Canada). Canadian is only provided if no US data available for part number.
Status	Text	255	No	Part number status. A status of Discontinued or Current represents the most current part number in the family.
SerialNumber	Long Integer	4	No	Auto incrementing number used to indicate supersession order. The highest number within a Manufacturer, Family, and Country combination is the most current.

4.16 PartPrice

Used for Part pricing. Lists the Manufacturer Suggest Retail Price for the most current part number listed for a given OE_ManufacturerName, PartNumberFamily_ID and Country listed in PartFamily.

Name	Type	Size	Allow Nulls	Notes
OE_ManufacturerName (pk)	Text	255	No	OE Manufacturer
PartNumberFamily_ID	Long Integer	4	No	Reference to PartFamily table. A Part Family is a collection of OE Part Numbers that are part of the same supersession trail
Country	Text	255	No	Indicates Price country of Origin (US or Canada). Canadian is only provided if no US data available for part number.
PartPrice	Currency		No	Manufacturer suggested Retail Price for the most recent part listed within the part supersession trail.
CoreFlag	Yes/No	1	No	Flag indicating if MSRP price includes acore charge. 1 indicates the price includescore. 0 indicates the price excludes core.

4.17 AAIA_Make_to_MSRP_Manufacturer

MOTOR Quick-Lube

Relates the AAIA make for a MOTOR_QuickLube record (via ACES BaseVehicle and Make tables) to the OE_ManufacturerName values used in MOTOR pricing files.

Name	Type	Size	Allow Nulls	Notes
AAIA Make	Text	255	No	Make of vehicle listed in AAIA
MSRP Manufacturer	Text	255	No	Equivalent to OE_ManufacturerName.

5 Sample Queries

5.1 Select list of MOTOR QuickLube records based on BaseVehicle and MOTOR Operation

```
SELECT MOTOR_QuickLube_MOTOR_OperationTaxonomy_Xref.MOTOR_OperationTaxonomyID,
MOTOR_QuickLube.MOTOR_QuickLubeID, MOTOR_QuickLube.BaseVehicleID, MOTOR_QuickLube.SpecificationID,
Specification.SpecificationDescription, MOTOR_QuickLube.PositionID

FROM Specification INNER JOIN (MOTOR_QuickLube INNER JOIN
MOTOR_QuickLube_MOTOR_OperationTaxonomy_Xref ON MOTOR_QuickLube.MOTOR_QuickLubeID =
MOTOR_QuickLube_MOTOR_OperationTaxonomy_Xref.MOTOR_QuickLubeID) ON Specification.SpecificationID =
MOTOR_QuickLube.SpecificationID

WHERE (((MOTOR_QuickLube_MOTOR_OperationTaxonomy_Xref.MOTOR_OperationTaxonomyID)=550165) AND
((MOTOR_QuickLube.BaseVehicleID)=3165));
```

5.2 Get MOTOR_Qualifiers for MOTOR QuickLube record

```
SELECT MOTOR_QuickLube.MOTOR_QuickLubeID, MOTOR_Qualifier.QualifierFamilyDescription,
MOTOR_Qualifier.QualifierID, MOTOR_Qualifier.QualifierDescription, MOTOR_Qualifier.QualifierTypeDescription

FROM MOTOR_Qualifier INNER JOIN (MOTOR_QuickLube INNER JOIN
MOTOR_QuickLube_MOTOR_Qualifier_xRef ON MOTOR_QuickLube.MOTOR_QuickLubeID =
MOTOR_QuickLube_MOTOR_Qualifier_xRef.MOTOR_QuickLubeID) ON MOTOR_Qualifier.QualifierID =
MOTOR_QuickLube_MOTOR_Qualifier_xRef.QualifierID

WHERE (((MOTOR_QuickLube.MOTOR_QuickLubeID)=115))

ORDER BY MOTOR_Qualifier.QualifierFamilyDescription
```

5.3 Get VCdb Attributes for MOTOR QuickLube record

```
SELECT MOTOR_QuickLube.MOTOR_QuickLubeID,
MOTOR_QuickLube_VCDB_Attribute_xRef.VCDB_AttributeName,
MOTOR_QuickLube_VCDB_Attribute_xRef.VCDB_AttributeValue

FROM MOTOR_QuickLube INNER JOIN MOTOR_QuickLube_VCDB_Attribute_xRef ON
MOTOR_QuickLube.MOTOR_QuickLubeID = MOTOR_QuickLube_VCDB_Attribute_xRef.MOTOR_QuickLubeID

WHERE (((MOTOR_QuickLube.MOTOR_QuickLubeID)=1))

ORDER BY MOTOR_QuickLube_VCDB_Attribute_xRef.VCDB_AttributeName
```

5.4 Get Notes for a MOTOR QuickLube record

```
SELECT MOTOR_QuickLube.MOTOR_QuickLubeID, Note.NoteID, Note.NoteDescription

FROM [Note] INNER JOIN (MOTOR_QuickLube INNER JOIN MOTOR_QuickLube_Note_xRef ON
MOTOR_QuickLube.MOTOR_QuickLubeID = MOTOR_QuickLube_Note_xRef.MOTOR_QuickLubeID) ON
Note.NoteID = MOTOR_QuickLube_Note_xRef.NoteID

WHERE (((MOTOR_QuickLube.MOTOR_QuickLubeID)=24));
```

5.5 Get Capacity data for a MOTOR QuickLube record

```
SELECT MOTOR_QuickLube.MOTOR_QuickLubeID, QuickLube_Capacity.CapacityID,
QuickLube_Capacity.IncludesFilter, Unit.UnitID, Unit.UnitDescription, QuickLube_Capacity.Volume,
QuickLube_Capacity.VolumeMin

FROM Unit INNER JOIN (MOTOR_QuickLube INNER JOIN Capacity ON MOTOR_QuickLube.MOTOR_QuickLubeID
= QuickLube_Capacity.MOTOR_QuickLubeID) ON Unit.UnitID = QuickLube_Capacity.UnitID

WHERE (((MOTOR_QuickLube.MOTOR_QuickLubeID)=1));
```

5.6 Get Fluid data for a MOTOR QuickLube record

This is a flattening of the data which brings together multiple tables for demonstration purposes. Your GUI may not require the data to be flattened in this manner.

```
SELECT MOTOR_QuickLube.MOTOR_QuickLubeID, QuickLube_Fluid.FluidID, QuickLube_Fluid.Temperature,
Grade.GradeID, Grade.GradeDescription, QuickLube_Fluid.Viscocity, Part.PartID, Part.SpecificationStandard,
Part.TradeName, MOTOR_Qualifier.QualifierID, MOTOR_Qualifier.QualifierDescription, Part.PartterminologyID,
Part.OEPartNumber

FROM MOTOR_QuickLube INNER JOIN ((QuickLube_Fluid LEFT JOIN Grade ON QuickLube_Fluid.GradeID =
Grade.GradeID) LEFT JOIN (Part LEFT JOIN MOTOR_Qualifier ON Part.QualifierID = MOTOR_Qualifier.QualifierID)
ON QuickLube_Fluid.FluidID = Part.FluidID) ON MOTOR_QuickLube.MOTOR_QuickLubeID =
Fluid.MOTOR_QuickLubeID

WHERE (((MOTOR_QuickLube.MOTOR_QuickLubeID)=118));
```

6 Specification List

The following is a list of specifications currently provided this dataset

	Capacity	Fluid
Air Conditioning Compressor Clutch Air Gap	Yes	Yes
Air Conditioning Refrigerant Oil in Accumulator	Yes	Yes
Air Conditioning Refrigerant Oil in Compressor	Yes	Yes
Air Conditioning Refrigerant Oil in Condenser	Yes	Yes
Air Conditioning Refrigerant Oil in Evaporator	Yes	Yes
Air Conditioning Refrigerant Oil in Line(s)	Yes	Yes
Air Conditioning Refrigerant Oil in Receiver Drier	Yes	Yes
Air Conditioning System Refrigerant (R-12)	Yes	Yes
Air Conditioning System Refrigerant (R-134a)	Yes	Yes
Air Conditioning System Refrigerant Oil	Yes	Yes
Auto Transaxle Fluid	Yes	Yes
Auto Transmission Fluid	Yes	Yes
Brake Fluid		Yes
Clutch Fluid		Yes
Diesel Exhaust Fluid	Yes	Yes
Engine Cooling System Coolant	Yes	Yes

Engine Oil	Yes	Yes
Front Differential Fluid	Yes	Yes
Front Final Drive Fluid	Yes	Yes
Manual Transaxle Fluid	Yes	Yes
Manual Transmission Fluid	Yes	Yes
Power Steering Fluid		Yes
Rear Differential Fluid	Yes	Yes
Rear Final Drive Fluid	Yes	Yes
Transfer Case Fluid	Yes	Yes

7 Delivery Format

All of the tables in this delivery are in comma delimited CSV format. The first line of each file contains the field names for the table. All values are surrounded by double quotes. In cases where the table data contains double quotes, a second double quote is inserted to escape the character. Some of the files may contain special characters, such as ®, that requires the file to be treated as using the utf-8 character set.

8 Data Usage Requirements

8.1 Notes

Data provided in the Notes table and linked to MOTOR_QuickLube records provide valuable information to the end user when the data is being used to service a vehicle. Related Notes should always be provided to the end user when providing specifications information in the service environment.

9 Data Usage Tips

9.1 Using MOTOR Qualifiers to Extended Vehicle Definitions

The MOTOR Qualifiers dataset can be used to extend vehicle definitions beyond the ACES VCdb standard. All vehicle definition qualifiers are assigned to the Qualifier Type of “Vehicle Attribute.” These qualifiers are then further qualified by Qualifier Family. The grouping of the Qualifier family is based on the idea that only one Qualifier within a Qualifier Family can be true for a specific physical vehicle at a time. For example, “With Air Conditioning” and “Without Air Conditioning” are in the same family because both cannot be true about the same vehicle at the same time. By attaching declared vehicles attribute qualifiers to a unique physical vehicle, perhaps represented by VIN, an application can then predetermine that an application is not likely to apply to a vehicle if there is a vehicle attribute qualifier attached that belongs to a family wherein another qualifier from that same family has been declared for that vehicle.

Please be aware that the grouping of mutually exclusive Qualifiers into Qualifier Families is not 100% accurate. It is meant as a means to indicate when applications are “not likely”, but in some cases may actually be valid.

9.2 Integrating with PMSST with Parts

The following are items to consider when integrating MOTOR_QuickLube with the MOTOR PMSST with Parts product.

- The two products can be linked by matching the MOTOR Operation Taxonomy ID and Base Vehicle ID. However, Position will usually not match between datasets. Assigned Position values are added to distinguish between records and are in context of similar records within the same dataset. They are not absolute in nature.

- MOTOR Qualifiers between the two datasets will not always match because there are relevant to the context of the data in comparison to similar records in the same dataset. Generally, the end user will need to resolve item selection based on qualifier.
- VCdb Attributes (other than Base Vehicle) between the two datasets will not always match because there are relevant to the context of the data in comparison to similar records in the same dataset. One approach is to have the end user resolve item selection based on VCdb Attributes. A second approach to this issue to explode both datasets to VCdb VehicleToEngineConfigID or VehicleConfigID values and match them where they are equal.

9.3 Capacity and Fluid not matching

In a small number of instances there will be instances where a MOTOR_QuickLube record relates to a record with a Capacity spec but not a Fluid spec even though one should be expected and vise versa. The most common case is AC fluid specs without related capacity data. In the case of AC specs, the capacity is not provided because it has not been made available. For the remaining specifications, records may not have both Fluid and Capacity specs either because of yet to be authored information or mismatching qualifiers. As part of our normal production processes, MOTOR will be reviewing and updating these records to help keep Capacity and Fluid data in synch.

Disclaimer: The information contained within this document is to help you with the basic implementation of MOTOR data. For use cases beyond what is described within this document It is recommended contact your salesperson, account executive or National Account Services.

10 Document History

Document History

Date	Version	Change Reference
9/12/2011	0.1	Draft for review with prototype
11/08/2011	1.0	Updated for production release
1/24/2012	1.1	Update specification list
3/7/2012	1.2	Minor updates
08/2015	1.3	Updated format
12/12/2017	1.4	Updated Business Rules #2, #4