Content Developers Kit

MOTOR Quick-Lube Cautions (AAIA ACES)

V1.3

Table of Contents

1 Glossary *2*

2 Business Rules *2*

3 Data Model *3*

4 Data Dictionary *4*

4.1 CautionNote **4**

4.2 MOTOR_OperationTaxonomy **4**

4.3 MOTOR_QuickLubeCaution **5**

4.4 MOTOR_QuickLubeCaution_CautionNote_xRef **5**

4.5 MOTOR_QuickLubeCaution_VCDB_Attribute_xRef **5**

4.6 Specification **6**

5 Sample Queries *7*

5.1 Select list of MOTOR QuickLube Caution records based on BaseVehicle and MOTOR Operation **7**

5.2 Get VCdb Attributes for MOTOR QuickLube Caution record **7**

5.3 Get CautionNotes for a MOTOR QuickLube Caution record **7**

6 Delivery Format *7*

7 Document History *8*

1 Glossary

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.

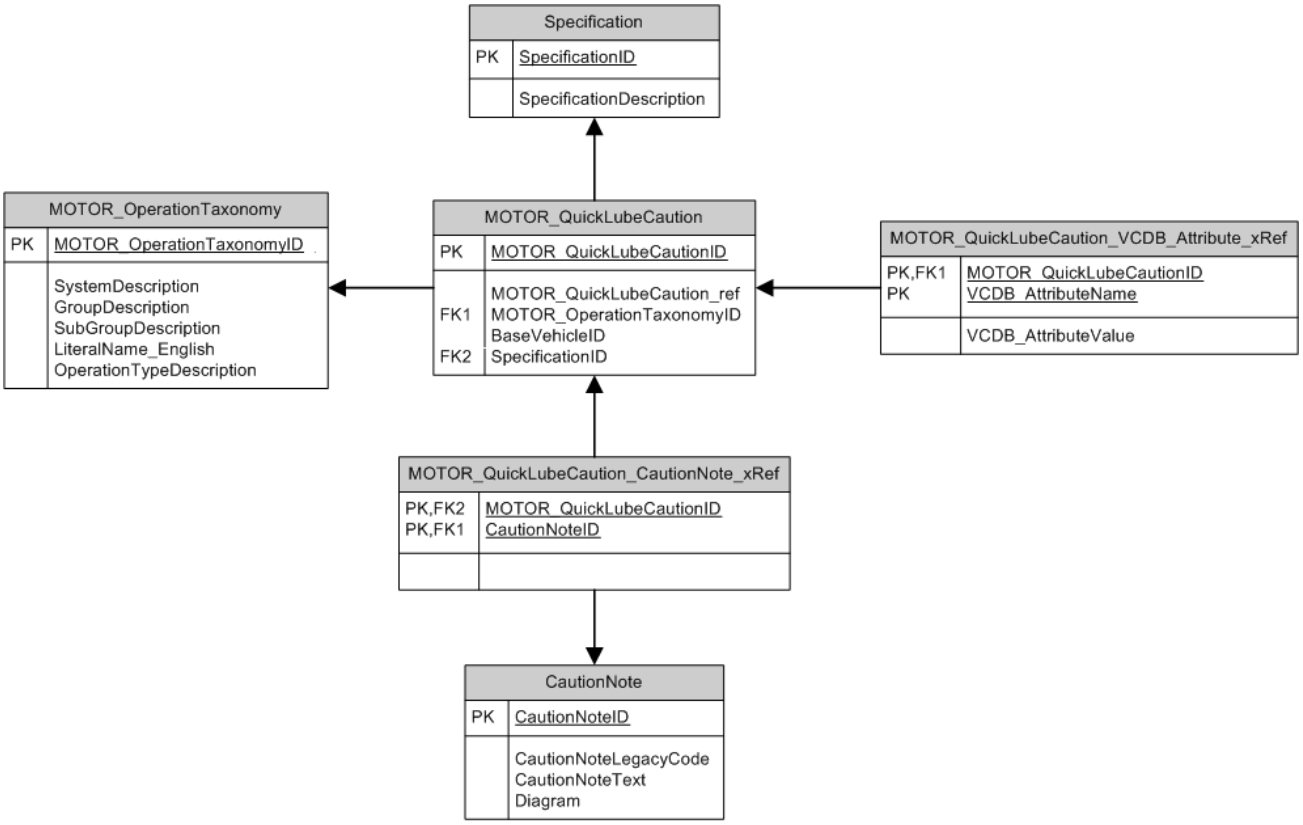
2 Business Rules

1) **Business Rule: (MOTOR_QuickLubeCaution)** Our process for assigning MOTOR_OperationTaxonomy ID values to a Caution Note does not take the vehicle into account. As a result there will be BaseVehicleID and MOTOR_OperationTaxonomyID combinations in this dataset that are not required per the PMSST dataset and some that may not make sense for the given vehicle. When integrating this data with MOTOR datasets that use the MOTOR_OperationTaxonomy standard, this can be filtered for the BaseVehicleID and MOTOR_OperationTaxonomyID in context. Additionally, the System value of a given MOTOR_OperationTaxonomyID may be used as a Category definition if desired.

2) **Business Rule: (MOTOR_QuickLubeCaution_VCDB_Attribute_xRef**) Each MOTOR_QuickLubeCaution 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.

3) **Business Rule: (MOTOR _QuickLubeCaution_VCDB_Attribute_xRef**) While the schema file allows for all the VCdb attributes that are in the AAIA ACES 3.0 schema file, only those attrubtes that relate to Vehicle and EngineConfig will be used.

3 Data Model



4 Data Dictionary

4.1 CautionNote

Provides caution text.

Name	Type	Size	Allow Nulls	Notes
CautionNoteID (pk)	Long Integer	4	No	
CautionNoteLegacyCode	Text	3	Yes	Code used in legacy MOTOR Chek-Chart products
CautionNoteText	Text	1,000	Yes	Caution text
Diagram	Text	50	Yes	Diagram file name

4.2 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 n used in GUI to represent Operation
OperationTypeDescription	Text	255	No	MOTOR Standard Operation type description. Normally used when filtering of group Operations by Type such as Test, R&R, and Drain & Refill.

4.3 MOTOR_QuickLubeCaution

Core listing of QuickLube Caution applications. Each MOTOR_QuickLubeCaution represents a singular combination of BaseVehicle, MOTOR_OperationTaxonomyID, VCdb Attribute set, and SpecificationID. This is similar to the element App in the AAIA ACES delivery specification.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeCautionID (pk)	Long Integer	4	No	
MOTOR_QuickLubeCaution_ref	Long Integer	4	Yes	Reference code used by MOTOR for issue diagnosis.
MOTOR_OperationTaxonomyID	Long Integer	4	Yes	References MOTOR_OperationTaxonomy. A Null value indicates that the caution in generic in nature and does not apply to specific Operations.
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.

4.4 MOTOR_QuickLubeCaution_CautionNote_xRef

Relates MOTOR_QuickLubeCation records to the applicable CautionNote.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeCautionID (pk)	Long Integer	4	No	Reference to MOTOR_QuickLubeCaution table
CautionNoteID (pk)	Long Integer	4	No	Reference to CautionNote

4.5 MOTOR_QuickLubeCaution_VCDB_Attribute_xRef

Relates MOTOR_QuickLubeCaution records to the VCdb Attributes that apply. In order for a MOTOR_QuickLubeCaution record to apply for the end user, then all related VCdb Attributes values must apply.

Name	Type	Size	Allow Nulls	Notes
MOTOR_QuickLubeCautionID (pk)	Long Integer	4	No	Reference to MOTOR_QuickLubeCaution 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	Text	255	No	id value of the listed VCdb Attribute

4.6 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

5 Sample Queries

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

```
SELECT MOTOR_QuickLubeCaution.MOTOR_QuickLubeCautionID, MOTOR_QuickLubeCaution.BaseVehicleID,
MOTOR_QuickLubeCaution.MOTOR_OperationTaxonomyID, MOTOR_QuickLubeCaution.Description,

FROM MOTOR_QuickLubeCaution

WHERE (((MOTOR_QuickLubeCaution.BaseVehicleID)=1) AND
((MOTOR_QuickLubeCaution.MOTOR_OperationTaxonomyID)=55000))
```

5.2 Get VCdb Attributes for MOTOR QuickLube Caution record

```
SELECT MOTOR_QuickLubeCaution.MOTOR_QuickLubeCautionID,
MOTOR_QuickLubeCaution_VCDB_Attribute_xRef.VCDB_AttributeName,
MOTOR_QuickLubeCaution_VCDB_Attribute_xRef.VCDB_AttributeValue

FROM MOTOR_QuickLubeCaution INNER JOIN MOTOR_QuickLubeCaution_VCDB_Attribute_xRef ON
MOTOR_QuickLubeCaution.MOTOR_QuickLubeCautionID =
MOTOR_QuickLubeCaution_VCDB_Attribute_xRef.MOTOR_QuickLubeCautionID

WHERE (((MOTOR_QuickLubeCaution.MOTOR_QuickLubeCautionID)=1))

ORDER BY MOTOR_QuickLubeCaution_VCDB_Attribute_xRef.VCDB_AttributeName
```

5.3 Get CautionNotes for a MOTOR QuickLube Caution record

```
SELECT MOTOR_QuickLubeCaution.MOTOR_QuickLubeCautionID, CautionNote.CautionNoteLegacyCode,
CautionNote.CautionNoteText

FROM MOTOR_QuickLubeCaution INNER JOIN (CautionNote INNER JOIN
MOTOR_QuickLubeCaution_CautionNote_xRef ON CautionNote.CautionNoteID =
MOTOR_QuickLubeCaution_CautionNote_xRef.CautionNoteID) ON
MOTOR_QuickLubeCaution.MOTOR_QuickLubeCautionID =
MOTOR_QuickLubeCaution_CautionNote_xRef.MOTOR_QuickLubeCautionID

WHERE (((MOTOR_QuickLubeCaution.MOTOR_QuickLubeCautionID)=1))
```

6 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.

7 Document History

Document History

Date	Author	Version	Change Reference
9/21/2011	Ken Hinton	0.1	Draft for review with prototype
11/8/2011	Ken Hinton	1.0	Updated for production release
3/7/2012	Ken Hinton	1.1	Minor update to ERD diagram
3/13/2012	Ken Hinton	1.2	Changed order of fields in MOTOR_QuickLubeCaution
3/14/2012	Ken Hinton	1.3	Updated to allow Nulls for MOTOR_OperationTaxonomyID in MOTOR_QuickLubeCautions

Document Reviewers

Name	Version Approved	Position	Date
Marian Maasshoff	0.1	Vice President, Product Management	9/20/2011