**1- Package Content & Revision History**

**2018 Toyota 2.5L A25A-FKS Engine Tier 2 Fuel**

The following is a listing of the contents of this Test Data Package along with the suggested citation format and revision history of the material. Use of any NCAT documents listed below, included as part of the complete test data package, should reference the suggested citation provided. Note that SAE Papers included in the package should utilize the designated SAE CITATION format.

**SUGGESTED CITATION:**

*2018 Toyota 2.5L A25A-FKS Engine Tier 2 Fuel – Test Data Package*. Version 2020-07. Ann Arbor, MI: US EPA, National Vehicle and Fuel Emissions Laboratory, National Center for Advanced Technology, 2020.

**TEST PACKAGE CONTENTS:**

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| 1– Package Content & Revision History.docx | Brief overview document listing the contents, revision history & suggested citation format of the package |
| 2– Related NCAT Packages.docx | Listing of related NCAT Test Data and ALPHA Engine Map Packages |
| 3a– 2018 Toyota 2.5L A25A-FKS Engine Tier 2 Fuel – Test Report.docx | NCAT report outlining the test method and benchmarking results for mapping the engine used to support this testing |
| 3b– 2018 Toyota 2.5L A25A-FKS Engine - Test Cell 9 Startup & Shutdown Procedure.docx | NCAT document outlining the startup and shutdown procedures for the test cell utilized during testing |
| 4a– 2018 Toyota 2.5L A25A-FKS Engine Tier 2 Fuel – Test Data.xlsx | Data collected during engine testing for all points tested; including speed, load, fuel flow and calculated BMEP, BSFC & BTE values; additional temperature and pressure parameters are also included for reference |
| 4b– 2018 Toyota 2.5L A25A-FKS EGR Measurements – Test Data.xlsx | Data collected during EGR testing for all points tested |
| 5a– 2018 Toyota 2.5L A25A-FKS Engine Tier 2 Fuel – Test Data Plots.pdf | Contour plots of the measured variables in the test data |
| 5b– 2018 Toyota 2.5L A25A-FKS EGR Measurements – Test Data Plots.pdf | Contour plots of the measured variables in the EGR test data |
| 6– NVFEL Fuel Analysis Report 26864.pdf | Analysis report of the fuel properties |
| 7a– SAE 2019-01-0249.pdf | SAE paper outlining the test method and test results for the engine used to support the mapping of this engine |
| 7b– SAE 2017-01-5020.pdf | SAE paper outlining the test method and test results for the transmission used to support the mapping of this engine |

**REVISION HISTORY:**

Version 2020-07: Updated *2- Related NCAT Packages* sheet to include transmission test data package

Version 2020-04: Updated test data set and test data plots to include an additional EGR variable

Version 2019-03: Initial release