# SMALL OFF-ROAD ENGINE FUEL TANK CERTIFICATION APPLICATION

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#### **APPLICANT INFORMATION**

711 - 210/1111 1111 01111111111		
Applicant Name:		
CONSULTANT CONTACT INFORMATION		
Contact Name:	Title:	
Contact Email:		
APPLICANT CONTACT INFORMATION		
Contact Name:	Title:	
Contact Telephone:	Address:	
TEST MODEL INFORMATION		
Tested Model/Part Number:		
Test Procedure: TP-901, last amended May 6, 2019		
Engine Displacement Category	Internal Surface Area <sup>1</sup> (m <sup>2</sup> ):	
☐ ≤ 80 cc ☐ > 80 cc  Total Fuel Capacity (L):	Nominal Capacity (L):	
Barrier Technology:	Barrier Specifications:	
Criteria used to determine which fuel tank is expected to exhibit the highest permeation rate relative to the applicable permeation emission standard:		

**NOTES:** Internal surfaces are those surfaces that are subjected to liquid fuel or fuel vapor under normal operating conditions and have an opposing surface through the wall section that is exposed to the atmosphere. Internal webs and strengthening structures not in communication with the atmosphere are not considered internal surfaces for the purposes of this testing. Do not include the area of the fuel cap or any other openings.

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# **DURABILITY DEMONSTRATION INFORMATION**

PRESSURE TEST		
Start Date (MM/DD/YY):	End Date (MM/DD/YY):	
Duration (days):	Temperature:	
Rate (seconds/cycle):	Number of Cycles:	
Performed without fuel and before any preconditioning		
DESIGN LIMIT		
Maximum Pressure (psi or kPa):	Minimum Pressure (psi or kPa):	
SLOSH TEST		
Start Date (MM/DD/YY):	End Date (MM/DD/YY):	
Fuel Fill Amount (L):	Angle Deviation (degrees):	
Rate (seconds/cycle):	Number of Cycles:	
If using a laboratory sample orbital shaker table, provide the following:		
Centripetal Acceleration:	Frequency (cycles/second):	
Number of Cycles:		
ULTRAVIOLET (UV) RADIATION EXPOSU	RE	
Start Date (MM/DD/YY):	End Date (MM/DD/YY):	
Duration (hours):		
LIGHT SOURCE		
☐ Natural Sunlight	UV light, Intensity (W/m²):	
FUEL CAP INSTALLATION CYCLES		
Number of ON/OFF Cycles:		

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# PRECONDITIONING INFORMATION

Duration (days):		
Start Date(MM/DD/YY):	End Date (MM/DD/YY):	
Temperature:	Fuel Fill Amount (L):	
Fuel Refresh Dates (MM/DD/YY):	Fuel Refresh Amount (L):	
Fuel:  LEV III certification gasoline  The gasoline defined in 40 CFR Part 1060.520(e)		
SEALING INFORMATION		
Date and Time (MM/DD/YY HH:MM):	Fuel Fill Amount (L):	
Fuel:  LEV III certification gasoline  The gasoline defined in 40 CFR Part 1060.520(e)		
Description of sealing method:		
PERMEATION TEST INFORMATION		
Start Date and Time (MM/DD/YY HH:MM):	End Date and Time (MM/DD/YY HH:MM):	
Duration (days):	Temperature:	
Permeation Rates (g/m²/day):		
1.		
2.		
3.		
4.		
5.		
Test Method: ☐ Gravimetric ☐ Flame Ionization Detector (FID)		

STATE OF CALIFORNIA CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY CALIFORNIA AIR RESOURCES BOARD

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If tested using gravimetric method, provide coefficient of determination (r<sup>2</sup>):

1.
2.
3.
4.
5.
f r <sup>2</sup> is less than 0.95, provide the upper limit of the 95% confidence interval:
1.
2.
3.
4.
5.
If tested using a FID, detail calibration procedure:
ADDITIONAL ATTACHMENTO

#### ADDITIONAL ATTACHMENTS

- Authorization letter (if using a third-party consultant)
- Letter of intent
- CAD drawing
- Table of all models and specifications (electronic spreadsheet)
- Preconditioning tabulated temperature data (electronic spreadsheet)
- If preconditioning soak is less than 140 days, provide stabilization data
- Permeation tabulated test temperature data (electronic spreadsheet)
- All emission-related test data
- Fuel certificate of analysis
- Installation and maintenance instructions
- Limits for proper functioning
- Statement that warranty complies with California Code of Regulations, title 13, section 2760