

## **GCC Standardization Organization (GSO)**

**Conformity Assessment Department**

### **List of GSO Technical Regulations for Motor Vehicles**

**(2023 Model Year)**



**MY2023-D2**

<b>GSO</b>	<b>Year</b>	<b>Technical Regulation</b>
<b>34</b>	<b>2007</b>	<b>Lead-Acid Starter Batteries Used for Motor Cars &amp; Internal Combustion Engines</b>
<b>35</b>	<b>2007</b>	<b>Methods of Test for Lead-Acid Starter Batteries Used for Motor Cars &amp; Internal Combustion Engines</b>
<b>36</b>	<b>2005</b>	<b>Motor Vehicles - Methods of Test for Impact Strength - Part 1: Frontal Impact</b>
<b>37</b>	<b>2012</b>	<b>Motor Vehicles - Methods of Test for Impact Strength - Part 2: Rear Impact</b>
<b>38</b>	<b>2005</b>	<b>Motor Vehicles - Methods of Test for Impact Strength - Part 3A: Side Impact</b>
<b>39</b>	<b>2005</b>	<b>Motor Vehicles - Methods of Test for Impact Strength - Part 4: Roof Strength</b>
<b>40</b>	<b>2011</b>	<b>Motor Vehicles - Impact Strength</b>
<b>41</b>	<b>2007</b>	<b>Motor Vehicles: Front and Rear Exterior Protection Devices for Passenger Cars (Bumpers etc) and its Methods of Test</b>
<b>42</b>	<b>2015</b>	<b>Motor Vehicles: General Requirements</b>
<b>48</b>	<b>1984</b>	<b>Motor Vehicles: Conformity Certificates</b>
<b>51</b>	<b>2007</b>	<b>Passenger Car Tyres - Part 1: Nomenclature, Designation, Dimensions, Load Capacities and Inflation Pressures</b>
<b>52</b>	<b>2007</b>	<b>Passenger Car Tyres - Part 2: General Requirements</b>
<b>53</b>	<b>2007</b>	<b>Passenger Car Tyres - Part 3: Methods of Test</b>
<b>96</b>	<b>1988</b>	<b>Motor Vehicles - Methods of Testing of Safety Belt</b>
<b>97</b>	<b>1988</b>	<b>Motor Vehicles - Safety Belts</b>
<b>98</b>	<b>1988</b>	<b>Motor Vehicles - Flammability of Interior Materials and Testing Methods</b>
<b>99</b>	<b>1988</b>	<b>Road Vehicles - Sound Signaling Devices – Technical Specifications</b>
<b>135</b>	<b>2007</b>	<b>Motor Vehicles - Methods of Test for Engine Radiator</b>
<b>136</b>	<b>2007</b>	<b>Motor Vehicles - Engine Radiator</b>

<b>GSO</b>	<b>Year</b>	<b>Technical Regulation</b>
<b>144</b>	<b>1991</b>	<b>Motor Vehicles - Allowable Limits of Pollutants Emitted to the Atmosphere from Heavy Duty Diesel Engined Vehicles</b>
<b>145</b>	<b>1991</b>	<b>Motor Vehicles - Methods of Testing for Pollutants Emitted from Heavy Duty Diesel Engined Vehicles – Part 1: Determination of Exhaust Gaseous Pollutants</b>
<b>146</b>	<b>1991</b>	<b>Motor Vehicles - Methods of Testing for Pollutants Emitted from Heavy Duty Diesel Engined Vehicles – Part 2: Determination of Smoke</b>
<b>153</b>	<b>1993</b>	<b>Motor Vehicles - Conformity Certificates for Vehicles Manufactured in Multi-Stages</b>
<b>159</b>	<b>1993</b>	<b>Motor Vehicles - Dimensions and Weights</b>
<b>279**</b>	<b>2005</b>	<b>Car Upholstery - Testing Methods of Fabric for Car Seats</b>
<b>280**</b>	<b>2005</b>	<b>Car Upholstery - Fabric for Car Seats</b>
<b>289**</b>	<b>1994</b>	<b>Road Vehicles - Retro Reflective Number Plates and its Methods of Test</b>
<b>290</b>	<b>1994</b>	<b>Instruction Manual for Appliances Instruments and Equipment</b>
<b>419</b>	<b>1994</b>	<b>Motor Vehicles - Methods of Testing for Door Locks and Door Hinges</b>
<b>420</b>	<b>1994</b>	<b>Motor Vehicles - Door Locks and Door Hinges</b>
<b>421</b>	<b>2005</b>	<b>Motor Vehicles - Methods of Testing of Rear-view Mirrors</b>
<b>422</b>	<b>2005</b>	<b>Motor Vehicles – Rear-view Mirrors</b>
<b>581**</b>	<b>2007</b>	<b>Requirements for Storage of Motor Vehicles Tyres</b>
<b>645</b>	<b>2005</b>	<b>Multi-Purpose Vehicles, Trucks, Buses and Trailers Tyres - Part 1: Nomenclature, Designation, Dimensions, Load Capacities and Inflation Pressures</b>
<b>646</b>	<b>1996</b>	<b>Multi-Purpose Vehicles, Trucks, Buses and Trailers Tyres: Part 2: Method of Test</b>
<b>647</b>	<b>1996</b>	<b>Multi-Purpose Vehicles, Trucks, Buses and Trailers Tyres: Part 3: General Requirements</b>

<b>GSO</b>	<b>Year</b>	<b>Technical Regulation</b>
<b>674**</b>	<b>1997</b>	<b>Motor Vehicles - Safety Requirements for Maintenance and Repair Workshop</b>
<b>963*</b>	<b>1997</b>	<b>Motor Vehicles - General Requirements for Ambulances</b>
<b>971**</b>	<b>1997</b>	<b>Motor Vehicles - Periodic Technical Inspection Manual</b>
<b>1040</b>	<b>2000</b>	<b>Motor Vehicles - Allowable Limits of Pollutants Emitted to the Atmosphere from Light Duty Diesel Engined Vehicles</b>
<b>1041</b>	<b>2000</b>	<b>Motor Vehicles - Methods of Testing for Pollutants Emitted from Light Duty Diesel Engined Vehicles - Part 1: Determination of Exhaust Gaseous Pollutants</b>
<b>1042</b>	<b>2000</b>	<b>Motor Vehicles - Methods of Testing for Pollutants Emitted from Light Duty Diesel Engined Vehicles - Part 2: Determination of Smoke</b>
<b>1052 *</b>	<b>2000</b>	<b>Motor Vehicles Tyres - Temporary Use Spare Wheel/Tyres and Their Methods of Test</b>
<b>1053</b>	<b>2000</b>	<b>Motor Vehicles - Protection Against Theft</b>
<b>1503</b>	<b>2010</b>	<b>Motor Vehicle - Head Lamps Safety Requirements.</b>
<b>1598</b>	<b>2002</b>	<b>Motor Vehicles - Head Restraints and Their Methods of Test</b>
<b>1605**</b>	<b>2002</b>	<b>Full-Flow Lubricating Oil Filters for Internal Combustion Engines – Dimensions</b>
<b>1624</b>	<b>2002</b>	<b>Motor Vehicles - Noise Emissions</b>
<b>1625 *</b>	<b>2002</b>	<b>Motor Vehicles - Speed Limiters - Part 2: Technical Requirements</b>
<b>1626 *</b>	<b>2002</b>	<b>Motor Vehicles - Speed Limiters - Part 3: Methods of Test</b>
<b>1677</b>	<b>2003</b>	<b>Motor Vehicles – Laminated Safety Glass</b>
<b>1680</b>	<b>2003</b>	<b>Motor Vehicles – Allowable Limits of Gaseous Pollutants Emitted to the atmosphere from Unleaded Gasoline Vehicles</b>
<b>1681</b>	<b>2003</b>	<b>Motor Vehicles - Methods of Test for Gaseous Pollutants Emitted from Unleaded Gasoline Engined Vehicles - Part 1: Determination of Exhaust Gaseous Pollutants After a Cold Start</b>

<b>GSO</b>	<b>Year</b>	<b>Technical Regulation</b>
<b>1682</b>	<b>2003</b>	<b>Motor Vehicles - Methods of Test for Gaseous Pollutants Emitted from Unleaded Gasoline Engined Vehicles - Part 2: Determination of Exhaust Carbon Monoxide Concentration</b>
<b>1683</b>	<b>2003</b>	<b>Motor Vehicles - Methods of Test for Gaseous Pollutants Emitted from Unleaded Gasoline Engined Vehicles - Part 3: Determination of Evaporative Emissions (Hydro- carbons) from the Fuel System Using the Enclosure Method</b>
<b>1684</b>	<b>2003</b>	<b>Motor Vehicles - Methods of Test for Gaseous Pollutants Emitted from Unleaded Gasoline Engined Vehicles - Part 4: Determination of Gaseous Pollutants Emitted from Engine Crankcase</b>
<b>1685</b>	<b>2003</b>	<b>Motor Vehicles - Methods of Test for Gaseous Pollutants Emitted from Unleaded Gasoline Engined Vehicles – Part 5: Determination of Durability of Pollution Control Equipment</b>
<b>1707</b>	<b>2005</b>	<b>Motor Vehicles - Methods of Test for Impact Strength - Part 3B: Moving Barrier Side Impact (In accordance with US standards)</b>
<b>1708</b>	<b>2005</b>	<b>Motor Vehicles - Methods of Test for Impact Strength - Part 3C: Moving Barrier Side Impact (In accordance with European standards)</b>
<b>1709 *</b>	<b>2005</b>	<b>Motor Vehicles – Child Restraint Systems</b>
<b>1710 *</b>	<b>2005</b>	<b>Motor Vehicles – Methods of Testing of Child Restraint</b>
<b>1711 *</b>	<b>2005</b>	<b>Motor vehicles – Speed Limiters - Part 1: General requirements, Equipment Inspection, Certification and type approval</b>
<b>1780</b>	<b>2010</b>	<b>Motor Vehicles – Vehicle Identification Number (VIN) - Requirements</b>
<b>1781</b>	<b>2006</b>	<b>Motor Vehicles - World Manufacturer Identifier</b>
<b>1782</b>	<b>2008</b>	<b>Motor Vehicles – Vehicle Identification Number (VIN) – Location and attachment</b>
<b>1783</b>	<b>2006</b>	<b>Passenger Car Tyres - Treadwear, Traction and Temperature-Resistance Grading</b>
<b>1784</b>	<b>2006</b>	<b>Passenger Car Tyres - Method of Testing of Tyre Temperature Resistance Grading</b>
<b>GSO ISO 1585</b>	<b>2008</b>	<b>Road Vehicles – Engine Test Code – Net Power</b>
<b>GSO ISO 3537</b>	<b>2008</b>	<b>Motor Vehicles - Safety Glazing Materials - Mechanical Tests</b>

GSO	Year	Technical Regulation
<b>GSO ISO 3538</b>	<b>1997</b>	<b>Road Vehicles - Safety Glasses - Test Methods for Optical Properties.</b>
<b>GSO ISO 4548- 6**</b>	<b>2002</b>	<b>Methods of Test for Full-flow Lubricating Oil Filters for Internal Combustion Engines - Part 6: Static Burst Pressure Test</b>
<b>GSO ISO 4548- 1**</b>	<b>2002</b>	<b>Methods of Test for Full-Flow Lubricating Oil Filters for Internal Combustion Engines - Part 1: Differential Pressure Flow Characteristics</b>
<b>GSO ISO 4548- 2**</b>	<b>2002</b>	<b>Methods of Test for Full-Flow Lubricating Oil Filters for Internal Combustion Engines - Part 2: Element By-Pass Valve Characteristics</b>
<b>GSO ISO 4548- 3**</b>	<b>2002</b>	<b>Methods of Test for Full-Flow Lubricating Oil Filters for Internal Combustion Engines - Part 3: Resistance to High Differential Pressure and to Elevated Temperature</b>
<b>GSO ISO 6311**</b>	<b>2005</b>	<b>Motor Vehicles –Methods of Testing Brake Linings – Part 1: Internal Shear Strength of Lining Material.</b>
<b>GSO-ECE-13H</b>	<b>2012</b>	<b>Motor Vehicles: Braking System of Passenger Cars and Multi Purpose Vehicles</b>
<b>GSO-ECE-13H-1</b>	<b>2012</b>	<b>Motor Vehicles: Methods of Test for Braking System – Part 1: Braking Performance</b>
<b>GSO-ECE-13H-2</b>	<b>2012</b>	<b>Motor Vehicles: Methods of Test for Braking System – Part 2: Determination of Capacity of Energy Storage Devices</b>
<b>GSO-ECE-13H-3</b>	<b>2012</b>	<b>Motor Vehicles: Methods of Test for Braking System – Part 3: Determination of Distribution of Braking among the Axles of Vehicles</b>
<b>GSO-ECE-13H-4</b>	<b>2012</b>	<b>Motor Vehicles: Methods of Test for Braking System – Part 4: Determination of Function of Anti-Lock Systems</b>
<b>GSO-ECE-13H-5</b>	<b>2012</b>	<b>Motor Vehicles: Methods of Test for Braking System – Part 5: Determination of Performance of Brake Lining Using Inertia Dynamometer</b>
<b>GSO-ECE-13H-6</b>	<b>2012</b>	<b>Motor Vehicles: Methods of Test for Braking System – Part 6: Determination of Coefficient of Adhesion</b>

\* *Applicable for certification if provided or the vehicle is designed for.*

\*\* *Not applicable for Certification.*

### **Compliance with National Regulations for Member Countries (Refer to the Annex):**

The manufacturers should state in GSO conformity certificate (Additional Information Item) the following:

**"Also comply with the National regulations for member countries mentioned in the Annex of the list of Technical Regulations for MV 2023 MY-D2, when exporting to those countries."**

### **Recall Campaigns:**

Motor vehicles recalls are required in GSO member countries. It is essential that all Motor Vehicle Manufacturers should upload all details of recalls in the ECCS.

### **Maximum Vehicle Weight or Diminutions:**

When the maximum vehicle weight or diminutions exceed the limit of GSO regulations, it is required to obtain an approval to use the vehicles in the GCC countries from the local transport authorities in the GCC countries refer to GSO 159/1993 item 4.2.4

### **GSO technical requirements:**

To purchase or download GSO regulations please visit GSO website: [www.gso.org.sa](http://www.gso.org.sa)

### **Implementation of Euro 4 in accordance with GSO 42/2015:**

The limits of pollutants immitted from motor vehicles should comply with Euro 4 for all GCC countries that have in their markets suitable fuel (Either Gasoline or Diesel\*).

\* For Diesel Engine in Qatar refer to annex mentioned below.

## ANNEX

### National Regulations for Member Countries

#### United Arab Emirate:

- UAE.S ECE No 49/2013: Uniform provisions concerning the measures to be taken against the emission of gaseous and particulate pollutants from compressing-ignition engines and positive ignitions engines for use in vehicles.
- UAE.S ECE No 83/2006: Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements.
- UAE.S 5012: 2019: Motor Vehicles – Safety Requirements for School Buses
- UAE.S 5019: 2018: Motor Vehicle – “eCall” Emergency Calls Technical Requirements.
- UAE.S 5021: 2018: Terrestrial Radio Receiver Specifications.
- UAE.S 5041: 2020: Fire suppression systems intended for engine compartments of buses and coaches
- All Busses with less than 22 seats should be provided with speed limiting system with maximum speed of 100 km/h, this system cannot be modified or changed by the driver.
- All the seats of passenger cars and multipurpose vehicles (Except middle rear seat) shall be tower back type or equipped with adjustable head restraints.
- The front and rear outboard seats of passenger cars and multipurpose vehicles shall be provided with three-point safety belts, the other seats and seats of all other vehicles shall be provided with either two-point or three-point safety belts.
- Special design sports and electric vehicles and hydrogen fuel cell vehicles, which don't have a suitable place in the vehicle to install the spare tyre, are allowed to use the repair kit as an alternative to the spare tyre upon a special undertaking submitted to Ministry of Industry and Advanced Technology (MoIAT).
- All electric vehicles sold in the UAE market must obtain an Emirates conformity certificate from Ministry of Industry and Advanced Technology (MoIAT).



### **Kingdom of Bahrain:**

Large Passenger Vehicles (Busses):

- 1) The minimum seat length shall be 40 cm for every passenger (For school busses 30 cm at least).
- 2) The minimum seat width shall be 40 cm for every passenger (For school busses 30 cm at least).
- 3) The corridor between the seats, rows shall not be less than 40 cm.
- 4) The height between any of the seats (top of head rest) and the ceiling of the vehicle shall not be less than 85 cm.
- 5) The space between the front of a seat and a back of the seat in front shall not be less than 30 cm.
- 6) The space between the vehicle floor and its ceiling shall not be less than 190 cm, except the vehicles designed not for passengers to stand.

### **Kingdom of Saudi Arabia:**

<b>SASO No.</b>	<b>Name of Standard</b>
<b>SASO 2946:2020</b>	<b>Buses - Requirements of Construction</b>
<b>SASO 2944:2020</b>	<b>Motor vehicle - Technical Requirements for “eCall” Emergency Calls</b>
<b>SASO 2847:2017 + Amd 1: 2018</b>	<b>Fuel Economy Labeling Requirements for New Light Duty Vehicles</b>
<b>SASO 2857:2016</b>	<b>Vehicle tires rolling resistance and wet grip requirements</b>
<b>SASO 2864:2019</b>	<b>Saudi Arabia corporate average fuel economy standard (SAUDI CAFE) for incoming light duty vehicles (2021 –2023)</b>
<b>SASO GSO 2501:2017</b>	<b>Motor Vehicles - Safety Requirements for School Buses</b>
<b>SASO/CITC RI 109:2013 *</b>	<b>Specification for DAB, DVB and DRM Broadcasting Receivers</b>
<b>SASO/CITC RI 054:2013 *</b>	<b>Specification for Non-Specific Short-Range Devices and Ancillary Equipment.</b>
<b>SASO 2955:2021</b>	<b>Motor Vehicles-Front Underrun Protective Devices for Trucks</b>
<b>SASO 2956:2021</b>	<b>Motor Vehicles-Lateral Underrun Protective Devices for Trucks and Trailers</b>
<b>SASO 2957:2021</b>	<b>Motor vehicles-Rear Under Run Protective Devices for Trucks and Trailers</b>

<b>SASO ISO 4020:2011 **</b>	<b>Road Vehicles – Fuel Filters for Diesel Engines - Test Methods</b>
<b>SASO ISO 5011:2015 **</b>	<b>Inlet air cleaning equipment for internal combustion engines and compressors -- Performance testing</b>
<b>SASO ISO 4548-5:2014 **</b>	<b>Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 5: Cold start simulation and hydraulic pulse durability test</b>
<b>SASO ISO 4548-9:2008 **</b>	<b>Methods of test for full-flow lubricating oil filters for internal combustion engines – Part 9: Inlet and outlet anti-drain valve tests</b>
<b>SASO ISO 4548-12:2008 **</b>	<b>Methods of test for full-flow lubricating oil filters for internal combustion engines -- Part 12: Filtration efficiency using particle counting, and contaminant retention capacity</b>
<b>SASO ISO 3917:2012 **</b>	<b>Road vehicles -- Safety glazing materials -- Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering</b>
<b>SASO ISO 6310:2014 **</b>	<b>Road vehicles - Brake linings - Compressive strain test methods</b>
<b>SASO ISO 6312: 2014 **</b>	<b>Road vehicles - Brake linings - Shear test procedure for disc brake pad and drum brake shoe assemblies</b>
<b>SASO ISO 6313: 2005 **</b>	<b>Road vehicles - Brake linings - Effects of heat on dimensions and form of disc brake pads - Test procedure</b>
<b>SASO GSO ISO 4000-2: 2008 **</b>	<b>Passenger car tyres and rims – Part 2: Rims</b>
<b>SASO GSO ISO 4209-2:2012 **</b>	<b>Truck and bus tyres and rims (metric series) – Part 2: Rims</b>
<b>SASO ISO 7141:2015 **</b>	<b>Road vehicles - Light alloy wheels - Impact test</b>
<b>SASO ISO 3894:2015 **</b>	<b>Road vehicles – Wheels/rims for commercial vehicles – Test methods</b>
<b>SASO GSO ISO 3006:2008 **</b>	<b>Road vehicles – Passenger car wheels for road use – Test methods</b>

\* *Applicable for certification if provided or the vehicle is designed for.*

\*\* *Not applicable for Certification.*

### **State of Qatar:**

The limits of pollutants immitted from motor vehicles with Diesel Engine should comply with Euro V.