# SAE J2530 TEST REPORT FOR LIGHT ALLOY WHEEL

### Model#9E82S
- Corporate name: Forgestar
- Contact: Wong

<table>
<thead>
<tr>
<th>Reference No.</th>
<th>16021906</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>F10D Left</td>
</tr>
<tr>
<td>Nominal designation of rim</td>
<td>19×12J</td>
</tr>
<tr>
<td>Offset (mm)</td>
<td>79.25</td>
</tr>
<tr>
<td>P.C.D. (mm)</td>
<td>130</td>
</tr>
<tr>
<td>Number of bolt holes</td>
<td>5</td>
</tr>
<tr>
<td>Structure</td>
<td>1-PC</td>
</tr>
<tr>
<td>Material</td>
<td>A356.2</td>
</tr>
</tbody>
</table>

### 1. Tire used for test

<table>
<thead>
<tr>
<th>Item</th>
<th>Nominal designation of tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radial load endurance test</td>
<td>345/35R19</td>
</tr>
<tr>
<td>Impact test</td>
<td>305/35R19</td>
</tr>
</tbody>
</table>

MAX LOADING: 1600LBS  HUB=72.56mm  PCD DRILLED: 15.75X28.5mm

### 2. Testing conditions and results

1. **Rotary bending fatigue test**
   - Date of test, (Month) 01 (Day) 26 (Year) 2016
   - Bending moment during test (KN.m): 3.84
   - Rotational speed for test: 150,000 circles
   - Number of Test Required: 2
   - Damage to disk wheel: None
   - Loosening of tightening section: OK
   - Evaluation: Qualified/Disqualified
   - Used in calculation of bending moment: R=368.3mm  u=0.7  d=79.25mm  W=725.76KG
   - Calculated bending moment value: \( M = 3.836 \) (KN.m)

2. **Radial load endurance test**
   - Date of test, (Month) 01 (Day) 27 (Year) 2016
   - Pre-test air pressure [kpa]: 460
   - Radial load during test [KN]: 14.23
   - Rotational speed for test: 1,850,000 circles
   - Number of Test Required: 2
   - Damage to disk wheel: None
   - Loosening of fixture section etc.: OK
   - Evaluation: Qualified/Disqualified
   - Used in calculation of Radial load [kN] [kgf]
   - Calculated Radial load: \( K = 2.0 \)  \( F = 14.225 \)

3. **Impact test 13º**
   - Date of test, (Month) 01 (Day) 25 (Year) 2016
   - Pre-test air pressure [kpa]: 200
   - Total width (mm): 309
   - Weight mass (kg): 616
   - Drop height (mm): 230
   - Number of Test Required: 2
   - Damage to disk wheel: NONE
   - Air leakage: OK
   - Evaluation: Qualified/Disqualified

4. **Overall evaluation:** Qualified/Disqualified