# SFI TEST REPORT FOR LIGHT ALLOY WHEEL

## Reference No.

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference No.</td>
<td>100903</td>
</tr>
<tr>
<td>Type</td>
<td>F14</td>
</tr>
<tr>
<td>Nominal designation of rim</td>
<td>22×9.0J</td>
</tr>
<tr>
<td>Offset (mm)</td>
<td>+57</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-T6</td>
</tr>
<tr>
<td>Manufacturing method</td>
<td>FLOW FORMING</td>
</tr>
</tbody>
</table>

## 1. Tire used for test

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radial load endurance test</td>
<td>315/50R22</td>
</tr>
<tr>
<td>Impact test</td>
<td>245/30R22</td>
</tr>
<tr>
<td>PCD</td>
<td>∅15.75*24.5 HUB:74.1</td>
</tr>
<tr>
<td>MAX LOADING</td>
<td>2200LBS</td>
</tr>
</tbody>
</table>

## 2. Testing conditions and results

1. **(1) Rotary bending fatigue test**
   - Date of test: (Month 07) (Day 18) (Year) 2010
   - Testing equipment approval number: A-238
   - Bending moment during test (kgf.m): 588
   - Rotational speed for test: 100,000 circles
   - Damage to disk wheel: None
   - Loosening of tightening section: OK
   - Evaluation: Qualified

   Calculated bending moment value M (kNm) = 587.82
   Used in calculation of bending moment [kN] (kgf) = 997.92

2. **(2) Radial load endurance test**
   - Date of test: (Month 07) (Day 20) (Year) 2010
   - Testing equipment approval number: B-224
   - Pre-test air pressure [kpa] (kgf/cm²): 460
   - Radial load during test [kN] (kgf): 2246
   - Rotational speed for test: 500,000 circles
   - Damage to disk wheel: None
   - Loosening of fixture section etc.: OK
   - Evaluation: Qualified

   Calculated Radial load Q: 2245.31 (kgf)

3. **(3) Impact test 13º**
   - Date of test: (Month 07) (Day 16) (Year) 2010
   - Testing equipment approval number: C-297
   - Pre-test air pressure [kpa] (kgf/cm²): 200
   - Total width (mm): 249
   - Weight mass (kg): 779
   - Drop height (mm): 230
   - Impact position (*): 0º/180º
   - Damage to disk wheel: NONE
   - Air leakage: OK
   - Evaluation: Qualified

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

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**MODEL#CB42S**

Corporate name: Forgestar

Contact: Wong