SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No. 150406

<table>
<thead>
<tr>
<th>Type</th>
<th>CF5V deep</th>
<th>Nominal designation of rim</th>
<th>20×12J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset (mm)</td>
<td>80.75</td>
<td>P.C.D. (mm)</td>
<td>130</td>
</tr>
<tr>
<td>Number of bolt holes</td>
<td>5</td>
<td>Structure</td>
<td>1-PC</td>
</tr>
<tr>
<td>Material</td>
<td>A356-T6</td>
<td>Manufacturing method</td>
<td>FLOW FORMING</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>315/35R20</td>
</tr>
<tr>
<td>Impact test</td>
<td>315/35R20</td>
</tr>
<tr>
<td>PCD ⌀15.75*28.5</td>
<td>MAX LOADING: 1600LBS</td>
</tr>
</tbody>
</table>

2. Testing conditions and results

(1) Rotary bending fatigue test

- Date of test, (Month) 03 (Day) 30 (Year) 2015
- Testing equipment approval number A-238
- Bending moment during test (kgf.m) 394
- Rotational speed for test 100,000 circles
- Damage to disk wheel None
- Loosening of tightening section
- Evaluation Qual/Dis Qualified

Used in calculation of bending moment [kN] kgf, \( r \times 725.76 \) m, \( d \times 0.08075 \) m, \( W \times 0.3683 \) kg

Calculated bending moment value \( M \) [kNm], \( kgf.m \), \( r \times 393.14 \) (m) d (m)

(2) Radial load endurance test

- Date of test, (Month) 03 (Day) 31 (Year) 2015
- Testing equipment approval number B-224
- Pre-test air pressure [kpa], kgf/cm² 460
- Radial load during test [kN], kgf 1633
- Rotational speed for test 500,000 circles
- Damage to disk wheel None
- Loosening of fixture section etc.
- Evaluation Qual/Dis Qualified

Used in calculation of Radial load [kN], [kgf] Calculated Radial load Q725.76 kgf, W 1632.95 kg

(3) Impact test 13º

- Date of test, (Month) 03 (Day) 29 (Year) 2015
- Testing equipment approval number C-297
- Pre-test air pressure [kpa], kgf/cm² 200
- Total width (mm) 319
- Weight mass (kg) 616
- Drop height (mm) 230
- Impact position (º) 0º/180º
- Damage to disk wheel NONE
- Air leakage OK
- Evaluation Qual/Dis Qualified

(4) Overall evaluation Qualified Disqualified