SFI TEST REPORT FOR LIGHT ALLOY WHEEL

Reference No. 16020111
Type F14 super deep
Nominal designation of rim 18×11J
Offset (mm) 37.75
P.C.D. (mm) 130
Number of bolt holes 5
Structure 1-PC
Material A356-T6
Manufacturing method FLOW FORMING

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>295/45R18</td>
</tr>
<tr>
<td>Impact test</td>
<td>275/40R18</td>
</tr>
</tbody>
</table>

PCD 14.75*29.7

MAX LOADING: 1520LBS

2. Testing conditions and results

(1) Rotary bending fatigue test
Date of test, (Month 04 Day 08 Year 2014)
Testing equipment approval number A-238

<table>
<thead>
<tr>
<th>Bending moment during test (kgf.m)</th>
<th>Rotational speed for test</th>
<th>Damage to disk wheel</th>
<th>Loosening of tightening section</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>327</td>
<td>100,000 circles</td>
<td>None</td>
<td>OK</td>
<td>Qualified</td>
</tr>
</tbody>
</table>

Used in calculation of bending moment [kN] [kgf]

\[
\frac{689.47 \text{ (m)}}{0.03775 \text{ (m)}} \frac{W_0}{0.3683 \text{ (kg)}}
\]

Calculated bending moment value M [kNm] [kgf.m]

\[
\frac{326.05 \text{ (m) \times d (m)}}{689.47 \text{ (kgf) \times W_0 \text{ (kg)}}}
\]

(2) Radial load endurance test
Date of test, (Month 04 Day 09 Year 2014)
Testing equipment approval number B-224

<table>
<thead>
<tr>
<th>Pre-test air pressure [kpa] [kgf/cm²]</th>
<th>Radial load during test [kN] [kgf]</th>
<th>Rotational speed for test</th>
<th>Damage to disk wheel</th>
<th>Loosening of fixture section etc.</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>460</td>
<td>1552</td>
<td>500,000 circles</td>
<td>None</td>
<td>OK</td>
<td>Qualified</td>
</tr>
</tbody>
</table>

Used in calculation of Radial load [kN] [kgf]
Calculated Radial load Q 689.47 [kgf] W 0.3683 (kgs)

(3) Impact test 13º
Date of test, (Month 04 Day 07 Year 2014)
Testing equipment approval number C-297

<table>
<thead>
<tr>
<th>Pre-test air pressure [kpa] [kgf/cm²]</th>
<th>Total width (mm)</th>
<th>Weight mass (kg)</th>
<th>Drop height (mm)</th>
<th>Impact position (º)</th>
<th>Damage to disk wheel</th>
<th>Air leakage</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>279</td>
<td>594</td>
<td>230</td>
<td>0º/180º</td>
<td>NONE</td>
<td>OK</td>
<td>Qualified</td>
</tr>
</tbody>
</table>

(4) Overall evaluation: Qualified/Disqualified