# SFI TEST REPORT FOR LIGHT ALLOY WHEEL

| Reference No. | 16020102 | | |
|---|---|---|---|
| Type | F14 | Nominal designation of rim | 17×8.5J |
| Offset (mm) | 50 | P.C.D. (mm) | 130 |
| Number of bolt holes | 5 | Structure | 1-PC |
| Material | A356-T6 | Manufacturing method | FLOW FORMING |

**Model#7B42Y**

Corporate name: Forgestar

Contact: Wong

1. Tire used for test

| Item | Nominal designation of tire |
|---|---|
| Radial load endurance test | 275/65R17 |
| Impact test | 215/40R17 |

PCD §14.75*29.7

MAX LOADING:1520LBS

2. Testing conditions and results

(1) Rotary bending fatigue test Date of test, (Month 11 (Day) 23 (Year) 2013

Testing equipment approval number A-238

| Bending moment during test (kgf.m) | Rotational speed for test | Damage to disk wheel | Loosening of tightening section | Evaluation |
|---|---|---|---|---|
| 369 | 100,000 circles | None | OK | (Qualified)/Disqualified |

Used in calculation of bending moment [kN]{kgf} r 689.47 (m) d0.050(m) W0.4064 (kgs)

Calculated bending moment value M [kNm] {kgfm} r 368.99 (m) d (m)

(2) Radial load endurance test Date of test, (Month) 11 (Day) 24 (Year) 2013

Testing equipment approval number B-224

| Pre-test air pressure [kpa]{kgf/cm$^2$} | Radial load during test [kN]{kgf} | Rotational speed for test | Damage to disk wheel | Loosening of fixture section etc. | Evaluation |
|---|---|---|---|---|---|
| 460 | 1552 | 500,000circles | None | OK | (Qualified)/Disqualified |

Used in calculation of Radial load[kN]{kgf}Calculated Radial load Q 689.47 {kgf} W 1551.31（kgs）

(3) Impact test 13º Date of test, (Month) 11 (Day) 22 (Year) 2013

Testing equipment approval number C-297

| Pre-test air pressure [kpa]{kgf/cm$^2$} | Total width (mm) | Weight mass (kg) | Drop height (mm) | Impact position (º) | Damage to disk wheel | Air leakage | Evaluation |
|---|---|---|---|---|---|---|---|
| 200 | 219 | 594 | 230 | 0º/180º | NONE | OK | (Qualified)/Disqualified |

(4) Overall evaluation: (Qualified)/ Disqualified