STL SM
STANDARDS TESTING LABS
Tough On Testing. SM

# CORNERING FATIGUE TEST REPORT

| | | | |
|---|---|---|---|
| SET UP TECH | **DD** | END TECH | **DS** |
| START DATE | **8/15/09** | END DATE | **8/16/09** |
| | | STATION | **111** |

| | |
|---|---|
| STL TEST NUMBER | **FSC9-0008** |
| STL JOB NUMBER | **L9-544** |
| ACCOUNT REP. | **DIETZ** |
| CUSTOMER | **FORGESTAR** |
| CONTACT | **WONG** |
| PURCHASE ORDER | **10180** |

## WHEEL SPECIFICATIONS

| | |
|---|---|
| WHEEL SIZE | **20 X 8.5** |
| PART NUMBER | **FORGESTAR F10** |
| RATED LOAD | **1600** |
| MATERIAL | **ALUM. / TITANIUM** |
| ADAPTOR NUMBER | |
| WEAR PLATE | |
| STUD NUMBER | **1/2-20** |
| LUG NUT NUMBER | **1/2-20** |

## TEST SPECIFICATIONS

| | | | |
|---|---|---|---|
| INITIAL DEF | **.312** | FINAL DEF | **.310** |
| | | ROTARY TEST LOAD (ft lbs.) | **2,743** |
| | | | |
| | | TEST TORQUE (ft lbs.) | **85** |
| | | TEST DURATION (cycles) | **150,000** |
| | | TEST SPEED (rpm) | **500** |
| | | TEST SPEC. | **SAE J2530** |
| | | WHEEL WEIGHT | **24.3** |

FAILURE **20% OVER INITIAL DEFLECTION / 60% LOSS OF TORQUE/ VISUALLY DETECTED SECTION CRACK BREAK OR CRACK OF A FUNCTIONAL FASTENER**

**SPECIAL INSTRUCTIONS**

**BREAKAWAY TORQUE AT END OF TEST**

| | |
|---|---|
| | .000/.000 |
| FLATNESS CHECK AT START | .000/.000 |
| | .000/.000 |

| | |
|---|---|
| | .000/.000 |
| FLATNESS CHECK AT END | .000/.000 |
| | .000/.000 |

## TEST RESULTS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CYCLES COMPLETED (1) | **150,000** | INSPECTION | **DYE** | **BREAKAWAY TORQUE** | | | |
| TECHNICIAN | **DS** | TOTAL HOURS | **5.0** | 1. | **85/78.2** | 6. | **N/A** |
| DATE | **8/16/09** | DEFLECTION | **.310** | 2. | **85.2/77.7** | 7. | **N/A** |
| | | | | 3. | **85.4/77.1** | 8. | **N/A** |
| COMMENTS (1) | **Test Complete. No cracks found per dye penetrant inspection. Wheel meets requirements of SAE J2530.** | | | 4. | **85/68.4** | 9. | **N/A** |
| | | | | 5. | **85/82.4** | 10. | **N/A** |

APPROVAL : _____ DATE: 8/18/2009