



Brake Dynamometer Test Report

Link Test Report #: 132263-1
Test Description: 2001 TOYOTA CAMRY FRONT SAE J2522

Customer Reference: D562
Program # SAE J2522 JAN 2019 GENERAL 20190106
Platform: 2001 TOYOTA CAMRY FRONT
Lining Material: CERAMIC 6106
Test Date: 01/09/2019

Requested By:

Shandong Sensitive Brake System Co., Ltd.
Add: Naoshan Economic Development Zone, Qingzhou City, Shandong Province, China

Tested By:

Testing Coordination and Facility
North America Laboratory Test Operations
13840 Elmira Ave.
Detroit, MI 48227
www.linkeng.com
Phone: (313) 933-4900
Fax: (313) 933-0710

Test Request #:

132263-1



Customer Ref #:

D562

2001 TOYOTA CAMRY FRONT SAE 2522

Test Information

| | |
|--|--|
| Customer Name | Shandong Sensitive Brake System Co.Ltd |
| Requestor | Bai Kejiang |
| Test Procedure | Sae J2522 |
| Program Number | 300711 |
| Test Coordinator | Gist Jeff |
| Technician | DC |
| Dynamometer | Link3000 |
| Parts received, start and completion dates | 01/09/2019 - 01/09/2019 |
| Datalog, Template version | 3.29 |

Setup Details

| | |
|------------------------|---------------|
| Fixture Identification | |
| Fixture Design | L1 - KNUCKLE |
| Drive adapter method | LINK STANDARD |

Dynamometer Information

| | |
|---------------------|------------------------|
| Rolling Radius | 312.4 mm |
| Gross Axle Weight | N/A |
| Required Wheel Load | 714 kg |
| Actual Wheel Load | 711 kg |
| Required Inertia | 69.7 kg·m ² |
| Actual Inertia | 69.7 kg·m ² |

Brake Information

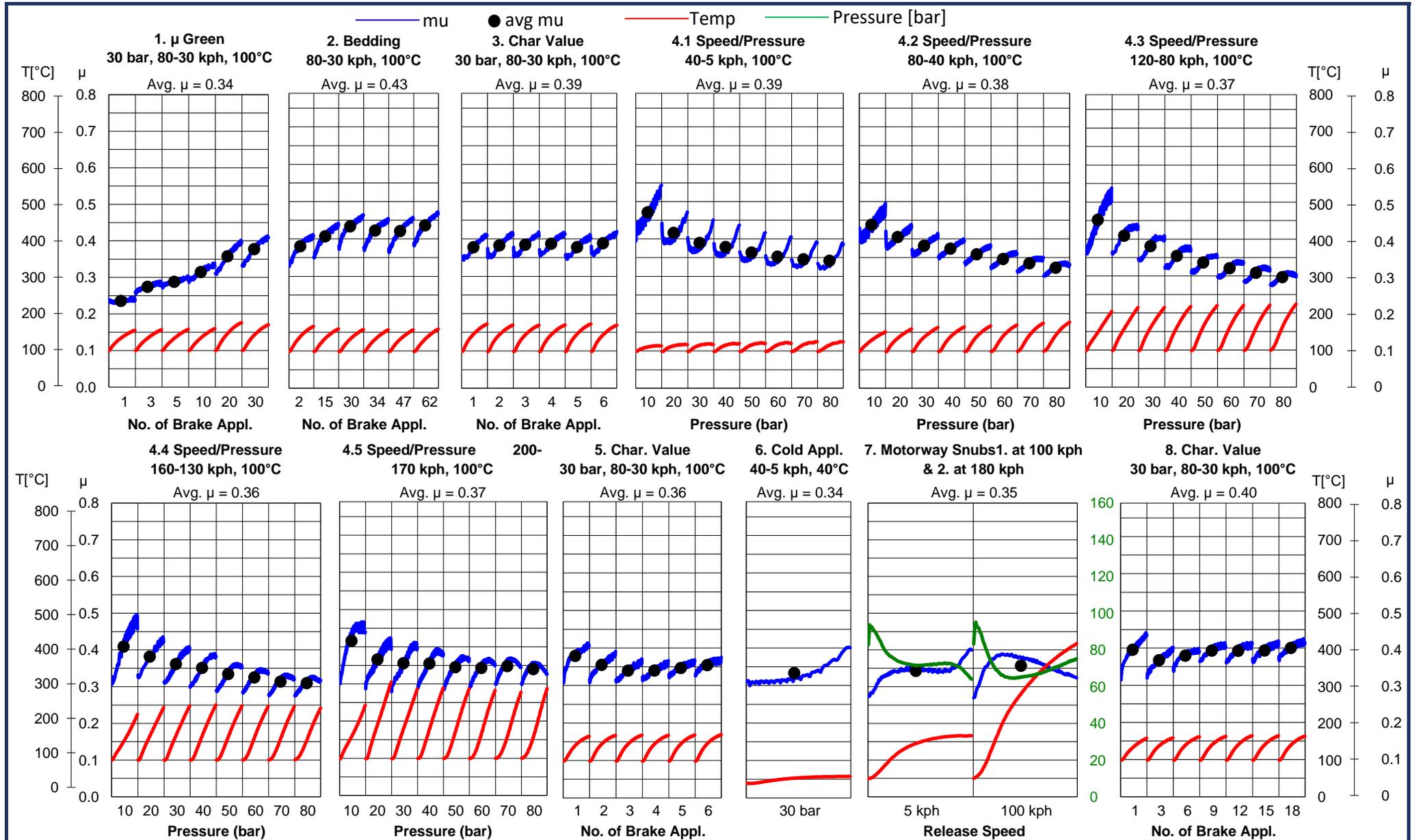
| | |
|------------------------|-------------------------|
| Brake Platform | 2001 Toyota Camry Front |
| Brake Type | Disc |
| Brake Size | 255 x 28mm |
| Brake ID Number | N/A |
| Drum/Rotor Type | Vented |
| Drum/Rotor Finish | New |
| Pri/Lead/Inner Lining | Ceramic 6106 |
| Sec/Trail/Outer Lining | Ceramic 6106 |
| Orientation | Left |
| Effective Radius | 104.4 mm |
| Number of Pistons/Cyls | 1 |
| Piston Diameter | 57.0 mm |

Comments:

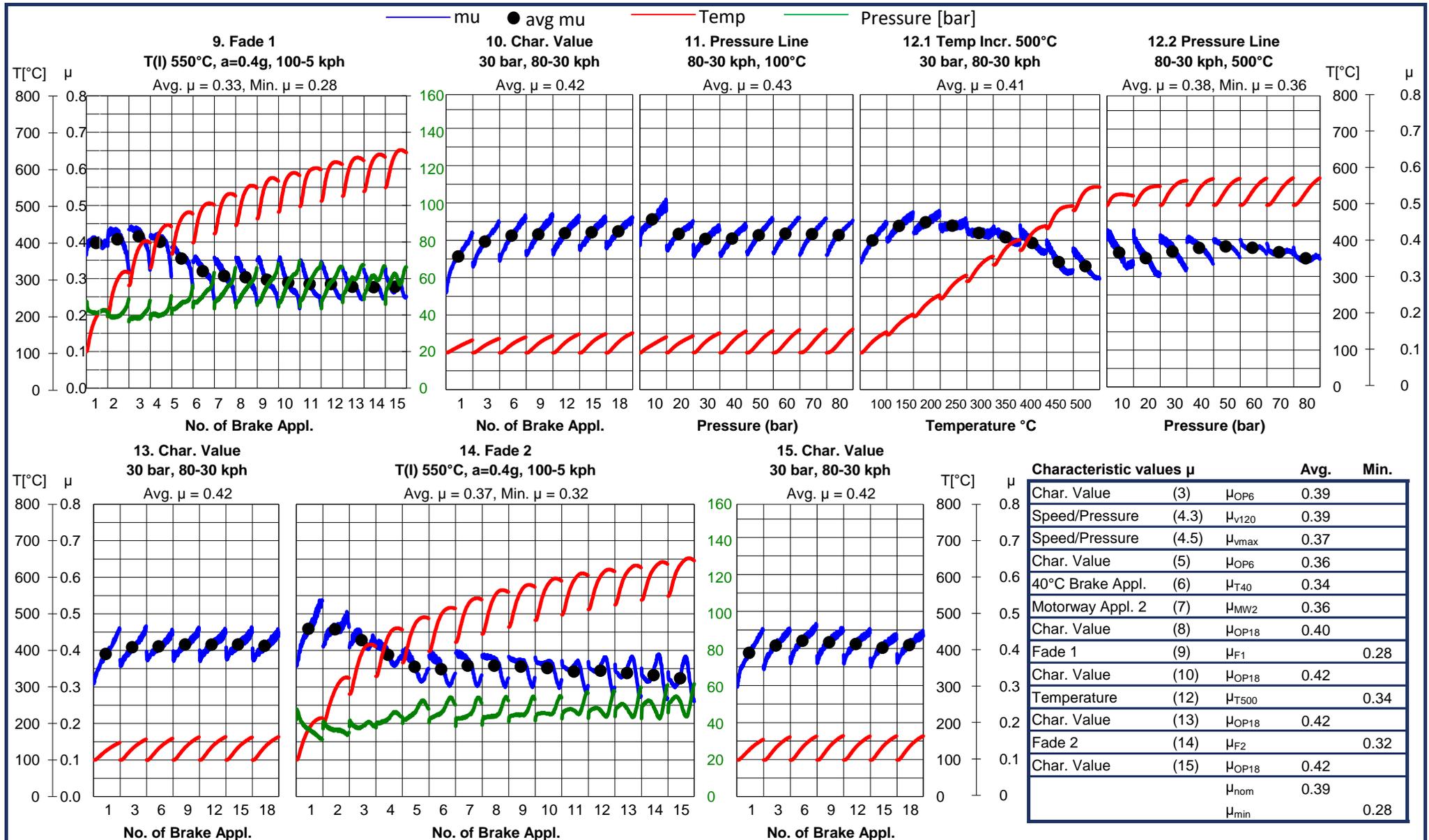
| | | | | | |
|--------------------|-----------|--------------|-------------------------|-------------|------------|
| Created by: | Gist Jeff | Title | Associate Test Engineer | Date | 01/20/2019 |
|--------------------|-----------|--------------|-------------------------|-------------|------------|

| | | | | | |
|---------------------|-----------|--------------|-------------------------|-------------|------------|
| Reviewed by: | Gist Jeff | Title | Associate Test Engineer | Date | 01/20/2019 |
|---------------------|-----------|--------------|-------------------------|-------------|------------|

Data applicable to the materials tested. Valid if signed by the test engineer. Report can be copied in full.
 Bilateral uncertainty of measurements 0.63% of FS. Coverage factor of 2. Confidence of 95%. Details available upon request.



| | | | | |
|---|------------------|--------------|------------------|------------------------|
| Test Description: TOYOTA CAMRY FRONT SAE J2522 | Rotor | 255 x 28mm | Effective Radius | 104.4 mm |
| | Primary Lining | Ceramic 6106 | Piston Diameter | 1 x 57.0 mm |
| | Secondary Lining | Ceramic 6106 | Actual Inertia | 69.7 kg·m ² |
| | | | Rolling Radius | 312.4 mm |

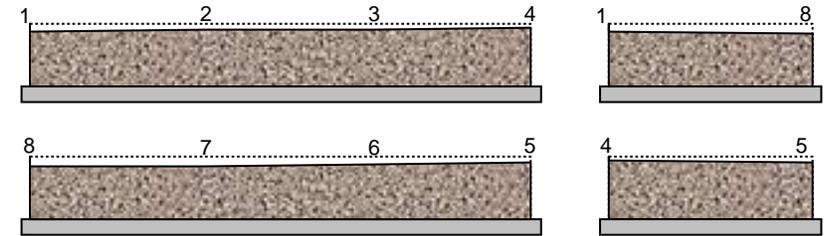


| | | | | |
|---|------------------|--------------|------------------|------------------------|
| Test Description: TOYOTA CAMRY FRONT SAE J2522 | Rotor | 255 x 28mm | Effective Radius | 104.4 mm |
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| | Secondary Lining | Ceramic 6106 | Actual Inertia | 69.7 kg·m ² |
| | | | Rolling Radius | 312.4 mm |



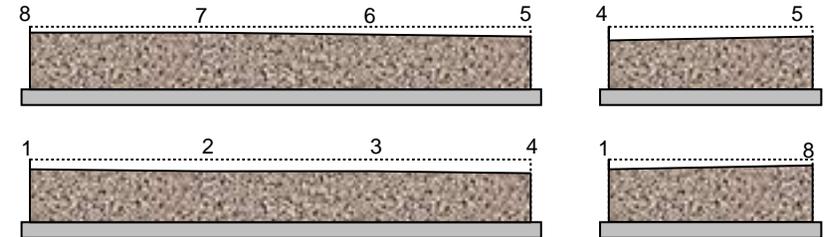
Inboard Pad Thickness (mm)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Average | Mass (gram) | |
|----------------|---------------------|--------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|-------------|--|
| Initial | 17.470 | 17.456 | 17.443 | 17.442 | 17.431 | 17.402 | 17.437 | 17.417 | 17.437 | 326.3 | |
| Final | 16.726 | 16.804 | 16.907 | 17.017 | 16.879 | 16.753 | 16.633 | 16.575 | 16.787 | 319.3 | |
| Loss | 0.744 | 0.652 | 0.536 | 0.425 | 0.552 | 0.649 | 0.804 | 0.842 | 0.650 | 7.0 | |
| | Tangential 38.4% | | | | Radial -17.2% | | | Cup -3.0% | | | |



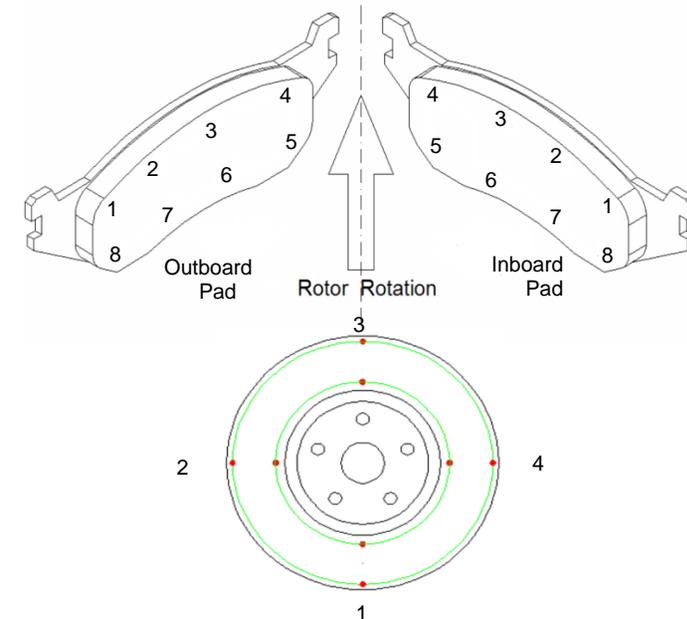
Outboard Pad Thickness (mm)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Average | Mass (gram) | |
|----------------|----------------------|--------------|--------------|--------------|-----------------|--------------|--------------|--------------|--------------|-------------|--|
| Initial | 17.451 | 17.463 | 17.425 | 17.425 | 17.411 | 17.447 | 17.475 | 17.453 | 17.444 | 324.6 | |
| Final | 16.818 | 16.827 | 16.697 | 16.493 | 16.799 | 16.981 | 17.087 | 17.125 | 16.853 | 318.3 | |
| Loss | 0.633 | 0.636 | 0.728 | 0.932 | 0.612 | 0.466 | 0.388 | 0.328 | 0.591 | 6.3 | |
| | Tangential -41.3% | | | | Radial 12.3% | | | Cup 9.5% | | | |



Rotor Thickness (mm)

| | Inner | | | | Outer | | | | Average |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Initial | 27.926 | 27.929 | 27.924 | 27.930 | 27.923 | 27.927 | 27.924 | 27.929 | 27.927 |
| Final | 27.919 | 27.923 | 27.919 | 27.923 | 27.919 | 27.924 | 27.917 | 27.922 | 27.921 |
| Loss | 0.007 | 0.006 | 0.005 | 0.007 | 0.004 | 0.003 | 0.007 | 0.007 | 0.006 |



*Tangential wear =Avg(1,8) - Avg(4,5)

*Radial wear =Avg(1,2,3,4) - Avg(5,6,7,8) * reported as percentage of max

*Cup wear =Avg(1,8,4,5) - Avg(2,3,7,6)

| | | | |
|-----------------------------------|------------------|------------------|------------------------|
| Test Description | Rotor | Effective Radius | 104.4 mm |
| 2001 TOYOTA CAMRY FRONT SAE J2522 | Primary Lining | Piston Diameter | 1 x 57.0 mm |
| | Secondary Lining | Actual Inertia | 69.7 kg·m ² |
| | | Rolling Radius | 312.4 mm |
| | | | |



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D562

| Stop | Brake Speed kph | Release Speed kph | Cycle Time sec | Decel Torque g | Min Torque N*m | Avg Torque N*m | Max Torque N*m | Min Press kPa | Avg Pres Time kPa | Max Press kPa | Init μ | Avg μ Time | Final μ | Max Fluid Disp cm ³ | Init Rotor °C | Final Rotor °C |
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------------------|------------------|-------------------|
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------------------|------------------|-------------------|

6.1 Green Characteristic

| | | | | | | | | | | | | | | | | |
|-----|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 24.9 | 0.18 | 374 | 386 | 402 | 2988 | 3003 | 3017 | 0.249 | 0.245 | 0.248 | 2.26 | 100 | 155 |
| 2 | 80.0 | 30.0 | 131.0 | 0.19 | 394 | 421 | 442 | 2986 | 3002 | 3015 | 0.252 | 0.267 | 0.275 | 2.13 | 100 | 157 |
| 3 | 80.0 | 30.0 | 152.8 | 0.20 | 417 | 447 | 472 | 2984 | 3001 | 3013 | 0.270 | 0.283 | 0.292 | 2.04 | 100 | 157 |
| 4 | 80.0 | 30.0 | 158.7 | 0.21 | 431 | 460 | 489 | 2982 | 3001 | 3011 | 0.279 | 0.292 | 0.303 | 2.00 | 100 | 157 |
| 5 | 80.0 | 30.0 | 162.7 | 0.21 | 444 | 468 | 495 | 2991 | 3003 | 3017 | 0.285 | 0.297 | 0.313 | 1.99 | 100 | 158 |
| 6 | 80.0 | 30.0 | 164.7 | 0.22 | 452 | 475 | 504 | 2986 | 3003 | 3015 | 0.292 | 0.301 | 0.320 | 1.98 | 100 | 158 |
| 7 | 80.0 | 30.0 | 166.3 | 0.22 | 454 | 486 | 521 | 2989 | 3002 | 3013 | 0.297 | 0.308 | 0.331 | 1.96 | 100 | 159 |
| 8 | 80.0 | 30.0 | 168.4 | 0.23 | 459 | 498 | 536 | 2983 | 3001 | 3013 | 0.293 | 0.316 | 0.341 | 1.96 | 100 | 158 |
| 9 | 80.0 | 30.0 | 169.8 | 0.23 | 459 | 498 | 540 | 2997 | 3006 | 3017 | 0.292 | 0.316 | 0.332 | 1.92 | 100 | 160 |
| 10 | 80.0 | 30.0 | 171.6 | 0.23 | 472 | 512 | 552 | 2993 | 3005 | 3016 | 0.304 | 0.324 | 0.341 | 1.93 | 100 | 160 |
| 11 | 80.0 | 30.0 | 171.8 | 0.23 | 460 | 507 | 555 | 2992 | 3004 | 3017 | 0.291 | 0.321 | 0.346 | 1.91 | 100 | 163 |
| 12 | 80.0 | 30.0 | 172.9 | 0.24 | 470 | 523 | 575 | 2988 | 3003 | 3014 | 0.306 | 0.331 | 0.353 | 1.93 | 100 | 163 |
| 13 | 80.0 | 30.0 | 173.9 | 0.24 | 467 | 526 | 582 | 2988 | 3002 | 3015 | 0.299 | 0.333 | 0.359 | 1.90 | 100 | 165 |
| 14 | 79.9 | 30.0 | 174.3 | 0.24 | 469 | 532 | 590 | 2986 | 3001 | 3013 | 0.295 | 0.337 | 0.374 | 1.92 | 100 | 168 |
| 15 | 80.0 | 30.0 | 174.0 | 0.25 | 476 | 544 | 610 | 2998 | 3006 | 3018 | 0.308 | 0.344 | 0.386 | 1.92 | 100 | 169 |
| 16 | 80.0 | 30.0 | 175.9 | 0.25 | 473 | 542 | 609 | 2994 | 3005 | 3020 | 0.300 | 0.343 | 0.374 | 1.90 | 100 | 173 |
| 17 | 80.0 | 30.0 | 175.5 | 0.26 | 489 | 562 | 627 | 2985 | 3004 | 3015 | 0.315 | 0.355 | 0.389 | 1.91 | 100 | 173 |
| 18 | 80.0 | 30.0 | 174.5 | 0.26 | 489 | 565 | 636 | 2988 | 3003 | 3019 | 0.308 | 0.357 | 0.397 | 1.91 | 100 | 176 |
| 19 | 80.0 | 30.0 | 176.1 | 0.26 | 495 | 572 | 646 | 2983 | 3003 | 3015 | 0.315 | 0.361 | 0.397 | 1.89 | 100 | 176 |
| 20 | 80.0 | 30.0 | 175.0 | 0.27 | 500 | 581 | 649 | 2994 | 3007 | 3024 | 0.321 | 0.367 | 0.405 | 1.89 | 100 | 176 |
| 21 | 80.0 | 30.0 | 176.4 | 0.27 | 502 | 584 | 654 | 2992 | 3006 | 3023 | 0.323 | 0.368 | 0.410 | 1.90 | 100 | 176 |
| 22 | 80.0 | 30.0 | 176.5 | 0.27 | 505 | 588 | 656 | 2992 | 3005 | 3019 | 0.325 | 0.371 | 0.417 | 1.90 | 100 | 177 |
| 23 | 80.0 | 30.0 | 176.5 | 0.27 | 509 | 593 | 662 | 2987 | 3004 | 3019 | 0.328 | 0.374 | 0.417 | 1.90 | 100 | 177 |
| 24 | 80.0 | 30.0 | 177.7 | 0.27 | 499 | 582 | 650 | 2984 | 3004 | 3020 | 0.314 | 0.367 | 0.401 | 1.88 | 100 | 179 |
| 25 | 80.0 | 30.0 | 176.4 | 0.27 | 504 | 585 | 648 | 2994 | 3008 | 3027 | 0.314 | 0.369 | 0.410 | 1.90 | 100 | 178 |
| 26 | 80.0 | 30.0 | 176.7 | 0.28 | 520 | 604 | 669 | 2991 | 3007 | 3026 | 0.336 | 0.381 | 0.424 | 1.89 | 100 | 175 |
| 27 | 80.0 | 30.0 | 176.3 | 0.28 | 526 | 610 | 668 | 2989 | 3006 | 3026 | 0.337 | 0.385 | 0.421 | 1.86 | 100 | 174 |
| 28 | 80.0 | 30.0 | 177.3 | 0.28 | 528 | 612 | 672 | 2988 | 3005 | 3022 | 0.341 | 0.386 | 0.426 | 1.88 | 100 | 173 |
| 29 | 80.0 | 30.0 | 176.7 | 0.28 | 530 | 613 | 669 | 2988 | 3004 | 3022 | 0.335 | 0.387 | 0.421 | 1.88 | 100 | 172 |
| 30 | 80.0 | 30.0 | 178.1 | 0.28 | 530 | 612 | 669 | 2984 | 3003 | 3021 | 0.342 | 0.386 | 0.419 | 1.86 | 100 | 170 |
| Min | 79.9 | 30.0 | 24.9 | 0.2 | 374 | 386 | 402 | 2982 | 3001 | 3011 | 0.249 | 0.245 | 0.248 | 1.86 | 100 | 155 |
| Avg | 80.0 | 30.0 | 166.1 | 0.2 | 477 | 536 | 588 | 2989 | 3004 | 3018 | 0.305 | 0.339 | 0.368 | 1.94 | 100 | 168 |
| Max | 80.0 | 30.0 | 178.1 | 0.3 | 530 | 613 | 672 | 2998 | 3008 | 3027 | 0.342 | 0.387 | 0.426 | 2.26 | 100 | 179 |

6.2 Burnish

| | | | | | | | | | | | | | | | | |
|----|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 177.9 | 0.14 | 270 | 310 | 351 | 1484 | 1509 | 1816 | 0.330 | 0.398 | 0.430 | 1.55 | 100 | 163 |
| 2 | 80.0 | 30.0 | 176.2 | 0.28 | 533 | 617 | 666 | 2991 | 3007 | 3029 | 0.339 | 0.389 | 0.417 | 1.88 | 100 | 168 |
| 3 | 80.0 | 30.0 | 177.3 | 0.14 | 270 | 311 | 359 | 1486 | 1507 | 1809 | 0.340 | 0.399 | 0.431 | 1.55 | 100 | 162 |
| 4 | 80.0 | 30.0 | 176.6 | 0.17 | 321 | 374 | 412 | 1785 | 1805 | 2076 | 0.341 | 0.399 | 0.418 | 1.61 | 100 | 164 |
| 5 | 80.0 | 30.0 | 177.5 | 0.21 | 389 | 455 | 497 | 2188 | 2203 | 2339 | 0.353 | 0.395 | 0.422 | 1.69 | 100 | 165 |
| 6 | 80.0 | 30.0 | 177.0 | 0.35 | 679 | 765 | 819 | 3796 | 3809 | 3824 | 0.339 | 0.379 | 0.409 | 2.06 | 100 | 168 |
| 7 | 80.0 | 30.0 | 177.5 | 0.15 | 278 | 322 | 350 | 1484 | 1509 | 1803 | 0.333 | 0.413 | 0.445 | 1.54 | 100 | 159 |
| 8 | 80.0 | 30.0 | 176.6 | 0.24 | 461 | 535 | 582 | 2593 | 2606 | 2624 | 0.352 | 0.391 | 0.419 | 1.75 | 100 | 165 |
| 9 | 80.0 | 30.0 | 178.0 | 0.18 | 345 | 400 | 436 | 1786 | 1805 | 2041 | 0.363 | 0.427 | 0.455 | 1.59 | 100 | 159 |
| 10 | 80.0 | 30.0 | 175.7 | 0.33 | 636 | 727 | 776 | 3387 | 3404 | 3419 | 0.363 | 0.404 | 0.427 | 1.96 | 100 | 163 |
| 11 | 80.0 | 30.0 | 177.0 | 0.15 | 286 | 336 | 366 | 1486 | 1506 | 1765 | 0.349 | 0.432 | 0.469 | 1.52 | 100 | 157 |
| 12 | 80.0 | 30.0 | 175.5 | 0.26 | 490 | 571 | 618 | 2592 | 2607 | 2627 | 0.373 | 0.417 | 0.451 | 1.77 | 100 | 161 |
| 13 | 80.0 | 30.0 | 177.9 | 0.15 | 276 | 329 | 370 | 1480 | 1508 | 1823 | 0.345 | 0.422 | 0.455 | 1.54 | 100 | 160 |
| 14 | 80.0 | 30.0 | 176.6 | 0.23 | 424 | 499 | 547 | 2184 | 2204 | 2306 | 0.381 | 0.433 | 0.461 | 1.68 | 100 | 158 |
| 15 | 80.0 | 30.0 | 176.2 | 0.30 | 568 | 659 | 713 | 2988 | 3004 | 3024 | 0.360 | 0.416 | 0.446 | 1.85 | 100 | 161 |



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D562

| Stop | Brake Speed kph | Release Speed kph | Cycle Time sec | Decel Torque g | Min Torque N*m | Avg Torque N*m | Max Torque N*m | Min Press kPa | Avg Pres Time kPa | Max Press kPa | Init μ | Avg μ Time | Final μ | Max Fluid Disp cm ³ | Init Rotor °C | Final Rotor °C |
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|---------------|---------|-----------------------------------|------------------|-------------------|
| 16 | 80.0 | 30.0 | 175.6 | 0.44 | 880 | 973 | 1025 | 4588 | 4603 | 4622 | 0.351 | 0.398 | 0.421 | 2.23 | 100 | 164 |
| 17 | 80.0 | 30.0 | 178.7 | 0.27 | 493 | 580 | 636 | 2587 | 2608 | 2635 | 0.364 | 0.423 | 0.466 | 1.75 | 100 | 160 |
| 18 | 80.0 | 30.0 | 177.0 | 0.49 | 956 | 1065 | 1122 | 5094 | 5107 | 5122 | 0.348 | 0.391 | 0.412 | 2.27 | 100 | 167 |
| 19 | 80.0 | 30.0 | 181.0 | 0.22 | 419 | 490 | 539 | 2181 | 2205 | 2239 | 0.383 | 0.425 | 0.463 | 1.60 | 100 | 159 |
| 20 | 80.0 | 30.0 | 180.1 | 0.19 | 352 | 410 | 448 | 1781 | 1805 | 2003 | 0.373 | 0.436 | 0.479 | 1.48 | 100 | 156 |
| 21 | 79.9 | 30.0 | 178.2 | 0.41 | 796 | 905 | 970 | 4192 | 4206 | 4227 | 0.354 | 0.405 | 0.435 | 2.05 | 100 | 166 |
| 22 | 80.0 | 30.0 | 179.6 | 0.16 | 292 | 350 | 383 | 1478 | 1508 | 1774 | 0.365 | 0.449 | 0.493 | 1.42 | 100 | 156 |
| 23 | 80.0 | 30.0 | 179.4 | 0.19 | 361 | 424 | 457 | 1780 | 1805 | 2022 | 0.402 | 0.451 | 0.479 | 1.51 | 100 | 156 |
| 24 | 80.0 | 30.0 | 177.7 | 0.46 | 911 | 1004 | 1057 | 4587 | 4603 | 4625 | 0.367 | 0.410 | 0.435 | 2.15 | 100 | 165 |
| 25 | 80.0 | 30.0 | 179.5 | 0.27 | 516 | 600 | 645 | 2581 | 2603 | 2630 | 0.371 | 0.438 | 0.474 | 1.69 | 100 | 160 |
| 26 | 80.0 | 30.0 | 179.1 | 0.16 | 304 | 352 | 384 | 1479 | 1509 | 1787 | 0.348 | 0.452 | 0.485 | 1.44 | 100 | 155 |
| 27 | 80.0 | 30.0 | 176.7 | 0.35 | 686 | 772 | 819 | 3384 | 3407 | 3431 | 0.373 | 0.428 | 0.449 | 1.89 | 100 | 161 |
| 28 | 80.0 | 30.0 | 179.4 | 0.24 | 442 | 517 | 554 | 2181 | 2203 | 2227 | 0.399 | 0.448 | 0.482 | 1.61 | 100 | 157 |
| 29 | 80.0 | 30.0 | 178.2 | 0.20 | 364 | 427 | 464 | 1780 | 1808 | 2055 | 0.385 | 0.454 | 0.483 | 1.51 | 100 | 156 |
| 30 | 80.0 | 30.0 | 178.6 | 0.32 | 616 | 702 | 749 | 2985 | 3006 | 3032 | 0.391 | 0.443 | 0.474 | 1.78 | 100 | 159 |
| 31 | 80.0 | 30.0 | 177.8 | 0.20 | 364 | 428 | 463 | 1780 | 1806 | 2025 | 0.382 | 0.455 | 0.488 | 1.49 | 100 | 155 |
| 32 | 80.0 | 30.0 | 176.9 | 0.39 | 756 | 847 | 894 | 3782 | 3804 | 3829 | 0.372 | 0.420 | 0.444 | 1.98 | 100 | 162 |
| 33 | 80.0 | 30.0 | 178.0 | 0.16 | 302 | 354 | 386 | 1482 | 1507 | 1742 | 0.366 | 0.454 | 0.483 | 1.43 | 100 | 153 |
| 34 | 80.0 | 30.0 | 175.9 | 0.31 | 595 | 683 | 731 | 2982 | 3002 | 3026 | 0.388 | 0.431 | 0.464 | 1.80 | 100 | 159 |
| 35 | 80.0 | 30.0 | 177.4 | 0.16 | 296 | 351 | 385 | 1477 | 1508 | 1798 | 0.374 | 0.450 | 0.484 | 1.46 | 100 | 154 |
| 36 | 80.0 | 30.0 | 176.7 | 0.19 | 363 | 424 | 460 | 1779 | 1806 | 2036 | 0.409 | 0.451 | 0.483 | 1.50 | 100 | 155 |
| 37 | 80.0 | 30.0 | 175.7 | 0.24 | 449 | 518 | 566 | 2182 | 2205 | 2232 | 0.398 | 0.449 | 0.482 | 1.60 | 100 | 156 |
| 38 | 80.0 | 30.0 | 175.5 | 0.39 | 747 | 844 | 899 | 3784 | 3803 | 3824 | 0.369 | 0.419 | 0.446 | 1.98 | 100 | 161 |
| 39 | 80.0 | 30.0 | 178.1 | 0.16 | 298 | 343 | 376 | 1484 | 1506 | 1746 | 0.363 | 0.440 | 0.471 | 1.46 | 100 | 154 |
| 40 | 80.0 | 30.0 | 174.6 | 0.27 | 510 | 587 | 636 | 2581 | 2607 | 2633 | 0.388 | 0.429 | 0.460 | 1.71 | 100 | 157 |
| 41 | 80.0 | 30.0 | 176.8 | 0.19 | 346 | 406 | 447 | 1777 | 1806 | 2079 | 0.369 | 0.432 | 0.467 | 1.54 | 100 | 157 |
| 42 | 80.0 | 30.0 | 176.3 | 0.35 | 677 | 773 | 825 | 3385 | 3406 | 3428 | 0.381 | 0.429 | 0.459 | 1.89 | 100 | 159 |
| 43 | 80.0 | 30.0 | 176.7 | 0.15 | 285 | 335 | 371 | 1478 | 1507 | 1778 | 0.359 | 0.430 | 0.479 | 1.44 | 100 | 156 |
| 44 | 80.0 | 30.0 | 176.4 | 0.27 | 519 | 599 | 649 | 2581 | 2603 | 2628 | 0.400 | 0.438 | 0.475 | 1.71 | 100 | 156 |
| 45 | 80.0 | 30.0 | 175.1 | 0.16 | 296 | 348 | 385 | 1482 | 1507 | 1768 | 0.387 | 0.447 | 0.495 | 1.43 | 100 | 153 |
| 46 | 80.0 | 30.0 | 175.2 | 0.23 | 440 | 514 | 563 | 2181 | 2206 | 2269 | 0.422 | 0.445 | 0.486 | 1.60 | 100 | 155 |
| 47 | 80.0 | 30.0 | 174.7 | 0.31 | 594 | 682 | 739 | 2986 | 3005 | 3030 | 0.385 | 0.430 | 0.465 | 1.82 | 100 | 159 |
| 48 | 80.0 | 30.0 | 176.4 | 0.45 | 892 | 991 | 1050 | 4586 | 4605 | 4624 | 0.358 | 0.405 | 0.433 | 2.18 | 100 | 163 |
| 49 | 80.0 | 30.0 | 175.4 | 0.26 | 487 | 564 | 622 | 2581 | 2604 | 2633 | 0.365 | 0.412 | 0.446 | 1.72 | 100 | 160 |
| 50 | 80.0 | 30.0 | 175.5 | 0.48 | 946 | 1054 | 1114 | 5083 | 5102 | 5122 | 0.354 | 0.388 | 0.412 | 2.28 | 100 | 167 |
| 51 | 79.9 | 30.0 | 176.5 | 0.22 | 409 | 473 | 523 | 2179 | 2206 | 2262 | 0.358 | 0.409 | 0.451 | 1.59 | 100 | 160 |
| 52 | 80.0 | 30.0 | 176.5 | 0.18 | 339 | 394 | 431 | 1776 | 1806 | 2045 | 0.371 | 0.419 | 0.458 | 1.48 | 100 | 157 |
| 53 | 80.0 | 30.0 | 175.7 | 0.42 | 820 | 917 | 970 | 4181 | 4204 | 4229 | 0.366 | 0.411 | 0.438 | 2.05 | 100 | 162 |
| 54 | 80.0 | 30.0 | 176.7 | 0.15 | 282 | 329 | 362 | 1475 | 1507 | 1770 | 0.352 | 0.423 | 0.455 | 1.43 | 100 | 158 |
| 55 | 80.0 | 30.0 | 176.4 | 0.19 | 365 | 418 | 453 | 1781 | 1804 | 2016 | 0.395 | 0.446 | 0.478 | 1.50 | 100 | 154 |
| 56 | 80.0 | 30.0 | 175.1 | 0.47 | 929 | 1026 | 1073 | 4589 | 4609 | 4631 | 0.378 | 0.419 | 0.440 | 2.13 | 100 | 164 |
| 57 | 80.0 | 30.0 | 178.2 | 0.27 | 511 | 582 | 632 | 2583 | 2606 | 2632 | 0.368 | 0.425 | 0.458 | 1.70 | 100 | 159 |
| 58 | 80.0 | 30.0 | 175.8 | 0.15 | 295 | 338 | 378 | 1480 | 1507 | 1768 | 0.368 | 0.434 | 0.473 | 1.40 | 100 | 155 |
| 59 | 80.0 | 30.0 | 175.6 | 0.36 | 681 | 779 | 828 | 3383 | 3405 | 3429 | 0.390 | 0.433 | 0.461 | 1.88 | 100 | 161 |
| 60 | 80.0 | 30.0 | 176.9 | 0.23 | 440 | 502 | 544 | 2177 | 2203 | 2230 | 0.389 | 0.436 | 0.476 | 1.57 | 100 | 157 |
| 61 | 80.0 | 30.0 | 175.7 | 0.19 | 357 | 415 | 459 | 1776 | 1803 | 1994 | 0.390 | 0.443 | 0.487 | 1.46 | 100 | 156 |
| 62 | 80.0 | 30.0 | 176.1 | 0.32 | 610 | 707 | 758 | 2983 | 3007 | 3031 | 0.399 | 0.445 | 0.477 | 1.79 | 100 | 161 |
| 63 | 80.0 | 30.0 | 176.0 | 0.19 | 357 | 414 | 457 | 1778 | 1805 | 2024 | 0.380 | 0.441 | 0.483 | 1.48 | 100 | 157 |
| 64 | 80.0 | 30.0 | 176.1 | 0.38 | 739 | 838 | 899 | 3786 | 3805 | 3827 | 0.369 | 0.416 | 0.446 | 1.97 | 100 | 165 |
| Min | 79.9 | 30.0 | 174.6 | 0.1 | 270 | 310 | 350 | 1475 | 1506 | 1742 | 0.330 | 0.379 | 0.409 | 1.40 | 100 | 153 |
| Avg | 80.0 | 30.0 | 176.9 | 0.3 | 499 | 571 | 616 | 2558 | 2581 | 2701 | 0.370 | 0.425 | 0.458 | 1.71 | 100 | 159 |
| Max | 80.0 | 30.0 | 181.0 | 0.5 | 956 | 1065 | 1122 | 5094 | 5107 | 5122 | 0.422 | 0.455 | 0.495 | 2.28 | 100 | 168 |



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D562

| Stop | Brake Speed kph | Release Speed kph | Cycle Time sec | Decel Torque g | Min Torque N*m | Avg Torque N*m | Max Torque N*m | Min Press kPa | Avg Pres Time kPa | Max Press kPa | Init μ | Avg μ Time | Final μ | Max Fluid Disp cm ³ | Init Rotor °C | Final Rotor °C |
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------------------|------------------|-------------------|
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------------------|------------------|-------------------|

6.3 Characteristic Value 1

| | | | | | | | | | | | | | | | | |
|-----|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 176.7 | 0.28 | 552 | 611 | 673 | 2985 | 3003 | 3025 | 0.363 | 0.387 | 0.420 | 1.75 | 100 | 174 |
| 2 | 80.0 | 30.0 | 177.6 | 0.28 | 563 | 620 | 680 | 2993 | 3008 | 3033 | 0.385 | 0.392 | 0.420 | 1.77 | 100 | 171 |
| 3 | 80.0 | 30.0 | 176.3 | 0.28 | 568 | 623 | 678 | 2988 | 3007 | 3034 | 0.388 | 0.394 | 0.418 | 1.77 | 100 | 171 |
| 4 | 80.0 | 30.0 | 177.1 | 0.29 | 570 | 626 | 678 | 2986 | 3005 | 3030 | 0.382 | 0.396 | 0.423 | 1.76 | 100 | 172 |
| 5 | 80.0 | 30.0 | 175.3 | 0.28 | 557 | 611 | 665 | 2990 | 3005 | 3025 | 0.367 | 0.387 | 0.413 | 1.76 | 100 | 174 |
| 6 | 80.0 | 30.0 | 177.8 | 0.29 | 572 | 628 | 680 | 2982 | 3004 | 3028 | 0.390 | 0.398 | 0.430 | 1.76 | 100 | 171 |
| Min | 80.0 | 30.0 | 175.3 | 0.3 | 552 | 611 | 665 | 2982 | 3003 | 3025 | 0.363 | 0.387 | 0.413 | 1.75 | 100 | 171 |
| Avg | 80.0 | 30.0 | 176.8 | 0.3 | 564 | 620 | 676 | 2987 | 3005 | 3029 | 0.379 | 0.392 | 0.421 | 1.76 | 100 | 172 |
| Max | 80.0 | 30.0 | 177.8 | 0.3 | 572 | 628 | 680 | 2993 | 3008 | 3034 | 0.390 | 0.398 | 0.430 | 1.77 | 100 | 174 |

6.4.1 Speed/Pressure Sensitivity 40kph

| | | | | | | | | | | | | | | | | |
|-----|------|-----|-------|------|------|------|------|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 39.9 | 0.9 | 190.2 | 0.11 | 212 | 246 | 281 | 987 | 1008 | 1194 | 0.405 | 0.480 | 0.554 | 1.21 | 100 | 115 |
| 2 | 40.0 | 0.9 | 64.2 | 0.20 | 409 | 444 | 503 | 1997 | 2010 | 2160 | 0.453 | 0.425 | 0.482 | 1.50 | 100 | 118 |
| 3 | 40.0 | 0.9 | 64.8 | 0.29 | 586 | 628 | 725 | 2998 | 3007 | 3018 | 0.413 | 0.398 | 0.461 | 1.73 | 100 | 119 |
| 4 | 39.9 | 0.9 | 63.7 | 0.37 | 763 | 818 | 940 | 3999 | 4008 | 4018 | 0.398 | 0.387 | 0.447 | 1.97 | 100 | 122 |
| 5 | 40.0 | 0.9 | 65.4 | 0.45 | 923 | 987 | 1128 | 4995 | 5009 | 5013 | 0.376 | 0.372 | 0.427 | 2.18 | 100 | 121 |
| 6 | 39.9 | 0.9 | 59.3 | 0.53 | 1074 | 1153 | 1319 | 6000 | 6010 | 6015 | 0.365 | 0.361 | 0.414 | 2.33 | 100 | 122 |
| 7 | 40.0 | 0.9 | 63.2 | 0.60 | 1233 | 1323 | 1490 | 7001 | 7014 | 7019 | 0.354 | 0.354 | 0.399 | 2.50 | 100 | 127 |
| 8 | 39.9 | 0.9 | 70.4 | 0.69 | 1397 | 1501 | 1693 | 8007 | 8016 | 8023 | 0.344 | 0.350 | 0.395 | 2.65 | 100 | 126 |
| Min | 39.9 | 0.9 | 59.3 | 0.1 | 212 | 246 | 281 | 987 | 1008 | 1194 | 0.344 | 0.350 | 0.395 | 1.21 | 100 | 115 |
| Avg | 40.0 | 0.9 | 80.2 | 0.4 | 825 | 888 | 1010 | 4498 | 4510 | 4557 | 0.388 | 0.391 | 0.447 | 2.01 | 100 | 121 |
| Max | 40.0 | 0.9 | 190.2 | 0.7 | 1397 | 1501 | 1693 | 8007 | 8016 | 8023 | 0.453 | 0.480 | 0.554 | 2.65 | 100 | 127 |

6.4.2 Speed/Pressure Sensitivity 80kph

| | | | | | | | | | | | | | | | | |
|-----|------|------|-------|------|------|------|------|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 40.0 | 62.6 | 0.10 | 203 | 229 | 283 | 987 | 1009 | 1192 | 0.439 | 0.448 | 0.505 | 1.08 | 100 | 153 |
| 2 | 80.0 | 40.0 | 179.0 | 0.20 | 395 | 433 | 467 | 1974 | 2006 | 2070 | 0.431 | 0.414 | 0.441 | 1.37 | 100 | 161 |
| 3 | 80.0 | 40.0 | 178.3 | 0.28 | 566 | 618 | 673 | 2977 | 3003 | 3032 | 0.382 | 0.391 | 0.412 | 1.62 | 100 | 165 |
| 4 | 80.0 | 40.0 | 177.1 | 0.37 | 754 | 813 | 868 | 3986 | 4009 | 4035 | 0.362 | 0.383 | 0.405 | 1.85 | 100 | 166 |
| 5 | 80.0 | 40.0 | 177.4 | 0.45 | 909 | 979 | 1045 | 4994 | 5009 | 5034 | 0.347 | 0.368 | 0.389 | 2.08 | 100 | 169 |
| 6 | 80.0 | 40.0 | 175.4 | 0.52 | 1060 | 1137 | 1197 | 5996 | 6010 | 6029 | 0.336 | 0.355 | 0.369 | 2.27 | 100 | 172 |
| 7 | 80.0 | 40.0 | 177.2 | 0.59 | 1202 | 1287 | 1341 | 6993 | 7011 | 7023 | 0.325 | 0.343 | 0.361 | 2.48 | 100 | 177 |
| 8 | 80.0 | 40.0 | 178.5 | 0.65 | 1326 | 1423 | 1480 | 7999 | 8013 | 8026 | 0.311 | 0.331 | 0.342 | 2.67 | 100 | 179 |
| Min | 80.0 | 40.0 | 62.6 | 0.1 | 203 | 229 | 283 | 987 | 1009 | 1192 | 0.311 | 0.331 | 0.342 | 1.08 | 100 | 153 |
| Avg | 80.0 | 40.0 | 163.2 | 0.4 | 802 | 865 | 919 | 4488 | 4509 | 4555 | 0.367 | 0.379 | 0.403 | 1.93 | 100 | 168 |
| Max | 80.0 | 40.0 | 179.0 | 0.7 | 1326 | 1423 | 1480 | 7999 | 8013 | 8026 | 0.439 | 0.448 | 0.505 | 2.67 | 100 | 179 |

6.4.3 Speed/Pressure Sensitivity 120kph

| | | | | | | | | | | | | | | | | |
|-----|-------|------|-------|------|------|------|------|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 119.9 | 80.0 | 133.0 | 0.11 | 189 | 236 | 285 | 970 | 1008 | 1154 | 0.370 | 0.461 | 0.548 | 1.09 | 100 | 207 |
| 2 | 119.9 | 80.0 | 200.6 | 0.20 | 382 | 439 | 473 | 1965 | 2008 | 2120 | 0.375 | 0.418 | 0.436 | 1.39 | 100 | 218 |
| 3 | 120.0 | 80.0 | 198.2 | 0.28 | 544 | 618 | 664 | 2968 | 3005 | 3041 | 0.357 | 0.390 | 0.419 | 1.67 | 100 | 218 |
| 4 | 120.0 | 80.0 | 195.2 | 0.35 | 690 | 771 | 825 | 3984 | 4005 | 4023 | 0.332 | 0.364 | 0.377 | 1.91 | 100 | 221 |
| 5 | 119.9 | 80.0 | 194.5 | 0.42 | 833 | 920 | 975 | 4986 | 5005 | 5027 | 0.319 | 0.346 | 0.359 | 2.10 | 100 | 223 |
| 6 | 120.0 | 80.0 | 194.9 | 0.48 | 961 | 1057 | 1116 | 5983 | 6005 | 6019 | 0.307 | 0.330 | 0.344 | 2.34 | 100 | 224 |
| 7 | 120.0 | 80.0 | 193.0 | 0.54 | 1086 | 1191 | 1249 | 7000 | 7015 | 7037 | 0.295 | 0.317 | 0.324 | 2.57 | 100 | 224 |
| 8 | 120.0 | 80.0 | 196.4 | 0.60 | 1211 | 1312 | 1367 | 7999 | 8016 | 8039 | 0.286 | 0.306 | 0.308 | 2.78 | 100 | 228 |
| Min | 119.9 | 80.0 | 133.0 | 0.1 | 189 | 236 | 285 | 970 | 1008 | 1154 | 0.286 | 0.306 | 0.308 | 1.09 | 100 | 207 |
| Avg | 120.0 | 80.0 | 188.2 | 0.4 | 737 | 818 | 869 | 4482 | 4508 | 4557 | 0.330 | 0.366 | 0.390 | 1.98 | 100 | 220 |
| Max | 120.0 | 80.0 | 200.6 | 0.6 | 1211 | 1312 | 1367 | 7999 | 8016 | 8039 | 0.375 | 0.461 | 0.548 | 2.78 | 100 | 228 |



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D562

| Stop | Brake Speed kph | Release Speed kph | Cycle Time sec | Decel Torque g | Min Torque N*m | Avg Torque N*m | Max Torque N*m | Min Press kPa | Avg Pres Time kPa | Max Press kPa | Init μ | Avg μ Time | Final μ | Max Fluid Disp cm³ | Init Rotor °C | Final Rotor °C |
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------|------------------|-------------------|
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------|------------------|-------------------|

6.4.4 Speed/Pressure Sensitivity 160kph

| | | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 159.9 | 130.0 | 198.7 | 0.10 | 165 | 215 | 265 | 968 | 1009 | 1184 | 0.338 | 0.419 | 0.467 | 1.13 | 100 | 224 |
| 2 | 159.9 | 130.0 | 205.0 | 0.19 | 344 | 408 | 470 | 1982 | 2005 | 2048 | 0.341 | 0.389 | 0.431 | 1.45 | 100 | 243 |
| 3 | 159.9 | 130.1 | 202.1 | 0.27 | 502 | 589 | 667 | 2984 | 3005 | 3031 | 0.322 | 0.370 | 0.415 | 1.73 | 100 | 248 |
| 4 | 159.9 | 130.0 | 200.5 | 0.35 | 661 | 770 | 848 | 3989 | 4007 | 4028 | 0.308 | 0.360 | 0.391 | 1.97 | 100 | 250 |
| 5 | 160.1 | 130.0 | 204.7 | 0.42 | 800 | 921 | 989 | 4991 | 5007 | 5028 | 0.299 | 0.343 | 0.361 | 2.19 | 100 | 248 |
| 6 | 159.9 | 130.0 | 206.9 | 0.49 | 953 | 1078 | 1137 | 5992 | 6007 | 6025 | 0.295 | 0.334 | 0.348 | 2.40 | 100 | 247 |
| 7 | 159.9 | 130.0 | 205.5 | 0.56 | 1090 | 1217 | 1278 | 6992 | 7009 | 7026 | 0.288 | 0.322 | 0.329 | 2.61 | 100 | 246 |
| 8 | 159.9 | 130.0 | 207.8 | 0.63 | 1255 | 1377 | 1437 | 8004 | 8021 | 8035 | 0.285 | 0.318 | 0.328 | 2.85 | 100 | 241 |
| Min | 159.9 | 130.0 | 198.7 | 0.1 | 165 | 215 | 265 | 968 | 1009 | 1184 | 0.285 | 0.318 | 0.328 | 1.13 | 100 | 224 |
| Avg | 160.0 | 130.0 | 203.9 | 0.4 | 721 | 822 | 886 | 4488 | 4509 | 4551 | 0.310 | 0.357 | 0.384 | 2.04 | 100 | 244 |
| Max | 160.1 | 130.1 | 207.8 | 0.6 | 1255 | 1377 | 1437 | 8004 | 8021 | 8035 | 0.341 | 0.419 | 0.467 | 2.85 | 100 | 250 |

6.5 Characteristic Value 2

| | | | | | | | | | | | | | | | | |
|-----|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 333.4 | 0.28 | 527 | 617 | 674 | 2990 | 3007 | 3032 | 0.317 | 0.388 | 0.416 | 1.84 | 100 | 167 |
| 2 | 80.0 | 30.0 | 184.2 | 0.26 | 513 | 577 | 639 | 2986 | 3006 | 3032 | 0.317 | 0.364 | 0.401 | 1.80 | 100 | 169 |
| 3 | 80.0 | 30.0 | 183.4 | 0.25 | 501 | 550 | 608 | 2983 | 3005 | 3031 | 0.326 | 0.348 | 0.377 | 1.81 | 100 | 170 |
| 4 | 80.0 | 30.0 | 182.3 | 0.25 | 508 | 550 | 600 | 2979 | 3004 | 3034 | 0.333 | 0.348 | 0.376 | 1.82 | 100 | 169 |
| 5 | 80.0 | 30.0 | 181.6 | 0.26 | 520 | 562 | 602 | 2975 | 3003 | 3037 | 0.340 | 0.356 | 0.375 | 1.79 | 100 | 170 |
| 6 | 80.0 | 30.0 | 183.1 | 0.26 | 531 | 574 | 611 | 2983 | 3008 | 3044 | 0.336 | 0.363 | 0.385 | 1.81 | 100 | 171 |
| Min | 80.0 | 30.0 | 181.6 | 0.3 | 501 | 550 | 600 | 2975 | 3003 | 3031 | 0.317 | 0.348 | 0.375 | 1.79 | 100 | 167 |
| Avg | 80.0 | 30.0 | 208.0 | 0.3 | 517 | 572 | 622 | 2983 | 3006 | 3035 | 0.328 | 0.361 | 0.388 | 1.81 | 100 | 169 |
| Max | 80.0 | 30.0 | 333.4 | 0.3 | 531 | 617 | 674 | 2990 | 3008 | 3044 | 0.340 | 0.388 | 0.416 | 1.84 | 100 | 171 |

6.6 Cold Application

| | | | | | | | | | | | | | | | | |
|---|------|-----|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|----|----|
| 1 | 39.9 | 0.9 | 732.4 | 0.25 | 486 | 541 | 648 | 2980 | 3003 | 3020 | 0.320 | 0.342 | 0.411 | 1.85 | 40 | 58 |
|---|------|-----|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|----|----|

6.7 Motorway Application

| | | | | | | | | | | | | | | | | |
|-----|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|------|----|-----|
| 1 | 100.0 | 2.9 | 66.3 | 0.61 | 1291 | 1343 | 1454 | 6395 | 7375 | 9475 | 0.273 | 0.342 | 0.400 | 3.04 | 49 | 166 |
| 2 | 180.0 | 100.0 | 520.6 | 0.61 | 1271 | 1332 | 1544 | 6443 | 7000 | 9626 | 0.270 | 0.356 | 0.324 | 3.16 | 49 | 417 |
| Min | 100.0 | 2.9 | 66.3 | 0.6 | 1271 | 1332 | 1454 | 6395 | 7000 | 9475 | 0.270 | 0.342 | 0.324 | 3.04 | 49 | 166 |
| Avg | 140.0 | 51.5 | 293.5 | 0.6 | 1281 | 1338 | 1499 | 6419 | 7188 | 9550 | 0.271 | 0.349 | 0.362 | 3.10 | 49 | 292 |
| Max | 180.0 | 100.0 | 520.6 | 0.6 | 1291 | 1343 | 1544 | 6443 | 7375 | 9626 | 0.273 | 0.356 | 0.400 | 3.16 | 49 | 417 |

6.8 Characteristic Value 3

| | | | | | | | | | | | | | | | | |
|-----|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 418.6 | 0.29 | 542 | 642 | 715 | 2975 | 3003 | 3036 | 0.327 | 0.405 | 0.443 | 1.82 | 100 | 159 |
| 2 | 80.0 | 30.2 | 191.4 | 0.28 | 540 | 615 | 679 | 2982 | 3007 | 3043 | 0.328 | 0.388 | 0.414 | 1.80 | 100 | 161 |
| 3 | 80.0 | 30.0 | 188.4 | 0.27 | 531 | 595 | 652 | 2977 | 3005 | 3043 | 0.329 | 0.376 | 0.412 | 1.80 | 100 | 160 |
| 4 | 80.0 | 30.0 | 188.9 | 0.27 | 542 | 600 | 645 | 2980 | 3004 | 3036 | 0.346 | 0.380 | 0.405 | 1.76 | 100 | 160 |
| 5 | 80.0 | 30.0 | 188.6 | 0.27 | 545 | 601 | 640 | 2979 | 3003 | 3034 | 0.347 | 0.381 | 0.395 | 1.78 | 100 | 163 |
| 6 | 80.0 | 30.0 | 189.1 | 0.28 | 560 | 614 | 650 | 2982 | 3002 | 3032 | 0.358 | 0.388 | 0.400 | 1.77 | 100 | 163 |
| 7 | 80.0 | 30.0 | 189.2 | 0.28 | 562 | 616 | 652 | 2981 | 3007 | 3044 | 0.363 | 0.389 | 0.401 | 1.77 | 100 | 165 |
| 8 | 80.0 | 30.0 | 189.0 | 0.28 | 566 | 621 | 661 | 2981 | 3005 | 3043 | 0.366 | 0.393 | 0.417 | 1.77 | 100 | 166 |
| 9 | 80.0 | 30.0 | 190.0 | 0.29 | 582 | 636 | 672 | 2984 | 3004 | 3034 | 0.373 | 0.403 | 0.411 | 1.77 | 100 | 164 |
| 10 | 80.0 | 30.0 | 190.5 | 0.29 | 586 | 639 | 678 | 2978 | 3003 | 3038 | 0.370 | 0.404 | 0.418 | 1.77 | 100 | 165 |
| 11 | 80.0 | 30.0 | 189.9 | 0.29 | 589 | 645 | 682 | 2978 | 3002 | 3032 | 0.378 | 0.408 | 0.429 | 1.75 | 100 | 164 |
| 12 | 80.0 | 30.0 | 188.2 | 0.29 | 581 | 636 | 676 | 2980 | 3007 | 3045 | 0.371 | 0.402 | 0.423 | 1.78 | 100 | 166 |
| 13 | 80.0 | 30.0 | 189.4 | 0.29 | 580 | 633 | 672 | 2980 | 3005 | 3045 | 0.379 | 0.400 | 0.409 | 1.77 | 100 | 166 |
| 14 | 80.0 | 30.0 | 189.8 | 0.29 | 591 | 645 | 681 | 2980 | 3004 | 3036 | 0.378 | 0.408 | 0.425 | 1.77 | 100 | 165 |
| 15 | 80.0 | 30.0 | 187.8 | 0.29 | 581 | 636 | 680 | 2978 | 3003 | 3038 | 0.382 | 0.402 | 0.416 | 1.75 | 100 | 166 |
| 16 | 79.9 | 30.0 | 188.5 | 0.29 | 589 | 644 | 686 | 2980 | 3002 | 3031 | 0.386 | 0.407 | 0.434 | 1.77 | 100 | 165 |
| 17 | 80.0 | 30.0 | 187.1 | 0.29 | 586 | 641 | 685 | 2981 | 3007 | 3041 | 0.380 | 0.405 | 0.420 | 1.77 | 100 | 167 |
| 18 | 80.0 | 30.0 | 187.6 | 0.30 | 597 | 646 | 688 | 2989 | 3005 | 3032 | 0.388 | 0.409 | 0.426 | 1.76 | 100 | 165 |
| Min | 79.9 | 30.0 | 187.1 | 0.3 | 531 | 595 | 640 | 2975 | 3002 | 3031 | 0.327 | 0.376 | 0.395 | 1.75 | 100 | 159 |
| Avg | 80.0 | 30.0 | 201.8 | 0.3 | 569 | 628 | 672 | 2980 | 3004 | 3038 | 0.364 | 0.397 | 0.417 | 1.77 | 100 | 164 |
| Max | 80.0 | 30.2 | 418.6 | 0.3 | 597 | 646 | 715 | 2989 | 3007 | 3045 | 0.388 | 0.409 | 0.443 | 1.82 | 100 | 167 |



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| Stop | Brake Speed kph | Release Speed kph | Cycle Time sec | Decel Torque g | Min Torque N*m | Avg Torque N*m | Max Torque N*m | Min Press kPa | Avg Pres Time kPa | Max Press kPa | Init μ | Avg μ Time | Final μ | Max Fluid Disp cm³ | Init Rotor °C | Final Rotor °C |
|-------------------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|---------------|---------|-----------------------|------------------|-------------------|
| 6.9 Fade 1 | | | | | | | | | | | | | | | | |
| 1 | 100.0 | 2.9 | 169.2 | 0.40 | 847 | 879 | 988 | 4088 | 4200 | 5074 | 0.364 | 0.397 | 0.394 | 2.20 | 100 | 213 |
| 2 | 99.9 | 3.1 | 14.5 | 0.40 | 824 | 870 | 940 | 3845 | 4083 | 4887 | 0.389 | 0.406 | 0.321 | 2.16 | 196 | 316 |
| 3 | 100.0 | 2.9 | 16.0 | 0.40 | 816 | 869 | 910 | 3756 | 4000 | 4812 | 0.434 | 0.415 | 0.323 | 2.20 | 281 | 398 |
| 4 | 100.0 | 2.9 | 32.3 | 0.40 | 811 | 868 | 906 | 3914 | 4145 | 5067 | 0.413 | 0.400 | 0.305 | 2.35 | 330 | 442 |
| 5 | 100.0 | 2.9 | 40.9 | 0.40 | 810 | 867 | 905 | 4284 | 4677 | 5632 | 0.385 | 0.354 | 0.273 | 2.56 | 367 | 477 |
| 6 | 99.9 | 2.9 | 41.2 | 0.40 | 806 | 865 | 908 | 4648 | 5168 | 6332 | 0.349 | 0.320 | 0.242 | 2.74 | 398 | 501 |
| 7 | 100.0 | 2.9 | 41.5 | 0.39 | 811 | 863 | 912 | 4703 | 5395 | 6603 | 0.358 | 0.307 | 0.233 | 2.84 | 423 | 526 |
| 8 | 100.0 | 3.1 | 40.2 | 0.39 | 810 | 863 | 912 | 4642 | 5466 | 6578 | 0.358 | 0.303 | 0.233 | 2.86 | 445 | 548 |
| 9 | 100.0 | 2.9 | 39.9 | 0.39 | 811 | 861 | 915 | 4652 | 5596 | 6814 | 0.349 | 0.296 | 0.226 | 2.98 | 464 | 566 |
| 10 | 100.0 | 2.9 | 37.5 | 0.39 | 801 | 860 | 918 | 4661 | 5758 | 6974 | 0.343 | 0.288 | 0.218 | 3.05 | 482 | 582 |
| 11 | 100.0 | 2.9 | 37.8 | 0.39 | 815 | 862 | 905 | 4778 | 5836 | 6869 | 0.338 | 0.284 | 0.225 | 3.07 | 498 | 598 |
| 12 | 100.0 | 2.9 | 36.6 | 0.39 | 842 | 863 | 889 | 4759 | 5837 | 6674 | 0.346 | 0.284 | 0.240 | 3.07 | 512 | 613 |
| 13 | 99.9 | 2.9 | 36.1 | 0.40 | 843 | 865 | 895 | 5103 | 5981 | 6762 | 0.328 | 0.276 | 0.249 | 3.13 | 525 | 623 |
| 14 | 100.0 | 2.9 | 35.1 | 0.40 | 838 | 866 | 902 | 5153 | 5994 | 6695 | 0.325 | 0.275 | 0.252 | 3.12 | 538 | 632 |
| 15 | 100.0 | 2.9 | 34.4 | 0.40 | 833 | 867 | 915 | 5249 | 5970 | 6634 | 0.328 | 0.277 | 0.250 | 3.15 | 549 | 645 |
| Min | 99.9 | 2.9 | 14.5 | 0.4 | 801 | 860 | 889 | 3756 | 4000 | 4812 | 0.325 | 0.275 | 0.218 | 2.16 | 100 | 213 |
| Avg | 100.0 | 3.0 | 43.5 | 0.4 | 821 | 866 | 915 | 4549 | 5207 | 6160 | 0.360 | 0.325 | 0.266 | 2.77 | 407 | 512 |
| Max | 100.0 | 3.1 | 169.2 | 0.4 | 847 | 879 | 988 | 5249 | 5994 | 6974 | 0.434 | 0.415 | 0.394 | 3.15 | 549 | 645 |

| | | | | | | | | | | | | | | | | |
|------------------------|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 6.10 Recovery 1 | | | | | | | | | | | | | | | | |
| 1 | 80.0 | 30.0 | 844.3 | 0.27 | 442 | 581 | 683 | 2975 | 3003 | 3028 | 0.269 | 0.366 | 0.429 | 2.33 | 100 | 134 |
| 2 | 80.1 | 30.0 | 201.9 | 0.28 | 512 | 614 | 706 | 2976 | 3007 | 3040 | 0.322 | 0.386 | 0.443 | 2.24 | 100 | 138 |
| 3 | 80.0 | 30.0 | 189.1 | 0.29 | 537 | 643 | 730 | 2975 | 3007 | 3048 | 0.351 | 0.405 | 0.457 | 2.22 | 100 | 138 |
| 4 | 80.0 | 30.0 | 181.5 | 0.29 | 536 | 644 | 732 | 2960 | 3005 | 3054 | 0.349 | 0.406 | 0.453 | 2.20 | 100 | 142 |
| 5 | 80.0 | 30.0 | 177.5 | 0.30 | 555 | 664 | 745 | 2971 | 3004 | 3043 | 0.371 | 0.418 | 0.464 | 2.16 | 100 | 141 |
| 6 | 80.0 | 30.0 | 175.7 | 0.31 | 560 | 668 | 750 | 2970 | 3003 | 3042 | 0.372 | 0.421 | 0.469 | 2.11 | 100 | 142 |
| 7 | 80.0 | 30.0 | 173.1 | 0.31 | 569 | 668 | 747 | 2972 | 3009 | 3058 | 0.367 | 0.421 | 0.473 | 2.09 | 100 | 146 |
| 8 | 80.0 | 30.0 | 173.0 | 0.31 | 566 | 671 | 750 | 2971 | 3007 | 3048 | 0.372 | 0.423 | 0.467 | 2.07 | 100 | 146 |
| 9 | 80.0 | 30.0 | 172.4 | 0.31 | 569 | 673 | 754 | 2969 | 3005 | 3052 | 0.382 | 0.424 | 0.472 | 2.07 | 100 | 146 |
| 10 | 80.0 | 30.0 | 170.1 | 0.31 | 571 | 674 | 754 | 2967 | 3005 | 3045 | 0.380 | 0.425 | 0.470 | 2.03 | 100 | 147 |
| 11 | 80.0 | 30.0 | 169.9 | 0.31 | 588 | 686 | 766 | 2965 | 3004 | 3044 | 0.395 | 0.433 | 0.483 | 2.02 | 100 | 147 |
| 12 | 80.0 | 30.0 | 170.0 | 0.31 | 586 | 677 | 753 | 2956 | 3003 | 3049 | 0.385 | 0.428 | 0.472 | 2.00 | 100 | 150 |
| 13 | 80.0 | 30.0 | 169.8 | 0.31 | 594 | 683 | 757 | 2971 | 3007 | 3051 | 0.389 | 0.431 | 0.482 | 1.99 | 100 | 151 |
| 14 | 80.0 | 30.2 | 170.2 | 0.31 | 592 | 686 | 757 | 2973 | 3006 | 3045 | 0.394 | 0.433 | 0.464 | 1.95 | 100 | 151 |
| 15 | 80.0 | 30.0 | 168.6 | 0.31 | 590 | 681 | 749 | 2969 | 3005 | 3048 | 0.396 | 0.430 | 0.460 | 1.93 | 100 | 151 |
| 16 | 80.0 | 30.0 | 170.0 | 0.32 | 605 | 690 | 753 | 2969 | 3004 | 3043 | 0.407 | 0.436 | 0.476 | 1.92 | 100 | 151 |
| 17 | 80.0 | 30.0 | 168.3 | 0.31 | 592 | 677 | 736 | 2964 | 3003 | 3047 | 0.399 | 0.428 | 0.463 | 1.91 | 100 | 152 |
| 18 | 80.0 | 30.0 | 170.1 | 0.31 | 603 | 685 | 750 | 2967 | 3006 | 3049 | 0.406 | 0.432 | 0.470 | 1.88 | 100 | 153 |
| Min | 80.0 | 30.0 | 168.3 | 0.3 | 442 | 581 | 683 | 2956 | 3003 | 3028 | 0.269 | 0.366 | 0.429 | 1.88 | 100 | 134 |
| Avg | 80.0 | 30.0 | 212.0 | 0.3 | 565 | 665 | 743 | 2969 | 3005 | 3046 | 0.373 | 0.419 | 0.465 | 2.06 | 100 | 146 |
| Max | 80.1 | 30.2 | 844.3 | 0.3 | 605 | 690 | 766 | 2976 | 3009 | 3058 | 0.407 | 0.436 | 0.483 | 2.33 | 100 | 153 |

| | | | | | | | | | | | | | | | | |
|---|------|------|-------|------|------|------|------|------|------|------|-------|-------|-------|------|-----|-----|
| 6.11 Temp./Pressure Sensitivity 100C/80C | | | | | | | | | | | | | | | | |
| 1 | 80.0 | 30.0 | 161.7 | 0.11 | 207 | 238 | 271 | 968 | 1008 | 1219 | 0.396 | 0.465 | 0.488 | 1.27 | 100 | 142 |
| 2 | 80.0 | 30.0 | 162.0 | 0.20 | 391 | 445 | 483 | 1980 | 2007 | 2123 | 0.396 | 0.426 | 0.462 | 1.61 | 100 | 145 |
| 3 | 80.0 | 30.0 | 161.0 | 0.30 | 576 | 653 | 712 | 2967 | 3005 | 3047 | 0.399 | 0.412 | 0.436 | 1.89 | 100 | 153 |
| 4 | 80.0 | 30.0 | 161.4 | 0.40 | 776 | 877 | 961 | 3973 | 4005 | 4045 | 0.375 | 0.413 | 0.449 | 2.13 | 100 | 158 |
| 5 | 80.0 | 30.0 | 163.5 | 0.51 | 995 | 1126 | 1247 | 4977 | 5005 | 5034 | 0.380 | 0.422 | 0.464 | 2.32 | 100 | 160 |
| 6 | 80.0 | 30.0 | 164.6 | 0.63 | 1221 | 1372 | 1497 | 5993 | 6013 | 6036 | 0.378 | 0.426 | 0.470 | 2.52 | 100 | 162 |
| 7 | 80.0 | 30.0 | 172.4 | 0.73 | 1431 | 1601 | 1739 | 6991 | 7015 | 7044 | 0.370 | 0.425 | 0.468 | 2.69 | 100 | 163 |
| 8 | 80.0 | 30.0 | 187.4 | 0.83 | 1651 | 1823 | 1973 | 7987 | 8017 | 8054 | 0.371 | 0.422 | 0.464 | 2.88 | 100 | 164 |
| Min | 80.0 | 30.0 | 161.0 | 0.1 | 207 | 238 | 271 | 968 | 1008 | 1219 | 0.370 | 0.412 | 0.436 | 1.27 | 100 | 142 |
| Avg | 80.0 | 30.0 | 166.7 | 0.5 | 906 | 1017 | 1110 | 4479 | 4509 | 4575 | 0.383 | 0.426 | 0.463 | 2.16 | 100 | 156 |
| Max | 80.0 | 30.0 | 187.4 | 0.8 | 1651 | 1823 | 1973 | 7987 | 8017 | 8054 | 0.399 | 0.465 | 0.488 | 2.88 | 100 | 164 |



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| Stop | Brake Speed kph | Release Speed kph | Cycle Time sec | Decel Torque g | Min Torque N*m | Avg Torque N*m | Max Torque N*m | Min Press kPa | Avg Pres Time kPa | Max Press kPa | Init μ | Avg μ Time | Final μ | Max Fluid Disp cm ³ | Init Rotor °C | Final Rotor °C |
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------------------|------------------|-------------------|
|------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|------------|---------|-----------------------------------|------------------|-------------------|

6.12.1 Increasing Temp. 500C/300C

| | | | | | | | | | | | | | | | | |
|-----|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 171.4 | 0.30 | 549 | 648 | 728 | 2965 | 3005 | 3051 | 0.354 | 0.409 | 0.458 | 1.78 | 100 | 156 |
| 2 | 80.0 | 30.0 | 22.2 | 0.32 | 628 | 708 | 764 | 2964 | 3005 | 3047 | 0.417 | 0.447 | 0.486 | 1.74 | 149 | 204 |
| 3 | 80.0 | 30.0 | 13.1 | 0.33 | 656 | 723 | 771 | 2966 | 3005 | 3047 | 0.431 | 0.457 | 0.475 | 1.74 | 198 | 256 |
| 4 | 80.0 | 30.0 | 11.0 | 0.32 | 672 | 706 | 739 | 2965 | 3004 | 3045 | 0.451 | 0.448 | 0.454 | 1.76 | 247 | 310 |
| 5 | 80.0 | 30.0 | 10.5 | 0.31 | 646 | 674 | 701 | 2960 | 3004 | 3046 | 0.458 | 0.428 | 0.433 | 1.78 | 294 | 361 |
| 6 | 80.0 | 30.0 | 10.5 | 0.30 | 617 | 655 | 702 | 2961 | 3004 | 3048 | 0.445 | 0.416 | 0.399 | 1.79 | 339 | 405 |
| 7 | 79.9 | 30.0 | 10.8 | 0.29 | 579 | 630 | 696 | 2959 | 3004 | 3046 | 0.450 | 0.401 | 0.379 | 1.81 | 378 | 444 |
| 8 | 80.0 | 30.0 | 9.0 | 0.25 | 496 | 549 | 645 | 2961 | 3004 | 3047 | 0.411 | 0.350 | 0.331 | 1.85 | 438 | 498 |
| 9 | 79.9 | 30.0 | 8.7 | 0.24 | 475 | 532 | 614 | 2960 | 3004 | 3052 | 0.389 | 0.339 | 0.307 | 1.88 | 486 | 549 |
| Min | 79.9 | 30.0 | 8.7 | 0.2 | 475 | 532 | 614 | 2959 | 3004 | 3045 | 0.354 | 0.339 | 0.307 | 1.74 | 100 | 156 |
| Avg | 79.9 | 30.0 | 29.7 | 0.3 | 591 | 647 | 707 | 2962 | 3004 | 3048 | 0.423 | 0.411 | 0.413 | 1.79 | 292 | 354 |
| Max | 80.0 | 30.0 | 171.4 | 0.3 | 672 | 723 | 771 | 2966 | 3005 | 3052 | 0.458 | 0.457 | 0.486 | 1.88 | 486 | 549 |

6.12.2 Pressure Line 500C/300C

| | | | | | | | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 17.9 | 0.09 | 165 | 190 | 261 | 989 | 1006 | 1154 | 0.410 | 0.374 | 0.341 | 1.21 | 500 | 525 |
| 2 | 80.0 | 30.0 | 26.7 | 0.17 | 317 | 372 | 499 | 1968 | 2005 | 2112 | 0.436 | 0.359 | 0.318 | 1.58 | 500 | 551 |
| 3 | 80.0 | 30.0 | 29.3 | 0.27 | 505 | 591 | 665 | 2963 | 3003 | 3048 | 0.422 | 0.377 | 0.332 | 1.90 | 500 | 567 |
| 4 | 80.0 | 30.0 | 30.3 | 0.37 | 719 | 812 | 882 | 3960 | 4003 | 4055 | 0.402 | 0.386 | 0.343 | 2.19 | 500 | 572 |
| 5 | 80.0 | 30.2 | 30.2 | 0.47 | 953 | 1028 | 1081 | 4963 | 5004 | 5060 | 0.410 | 0.390 | 0.361 | 2.42 | 500 | 572 |
| 6 | 80.0 | 30.0 | 29.5 | 0.56 | 1176 | 1224 | 1275 | 5954 | 6007 | 6069 | 0.409 | 0.386 | 0.371 | 2.65 | 500 | 573 |
| 7 | 80.0 | 30.0 | 29.8 | 0.63 | 1358 | 1386 | 1446 | 6951 | 7010 | 7074 | 0.399 | 0.374 | 0.369 | 2.89 | 500 | 574 |
| 8 | 80.0 | 30.0 | 27.7 | 0.69 | 1482 | 1513 | 1586 | 7936 | 8011 | 8082 | 0.389 | 0.357 | 0.357 | 3.13 | 500 | 574 |
| Min | 80.0 | 30.0 | 17.9 | 0.1 | 165 | 190 | 261 | 989 | 1006 | 1154 | 0.389 | 0.357 | 0.318 | 1.21 | 500 | 525 |
| Avg | 80.0 | 30.0 | 27.7 | 0.4 | 835 | 890 | 962 | 4461 | 4506 | 4582 | 0.410 | 0.375 | 0.349 | 2.25 | 500 | 564 |
| Max | 80.0 | 30.2 | 30.3 | 0.7 | 1482 | 1513 | 1586 | 7936 | 8011 | 8082 | 0.436 | 0.390 | 0.371 | 3.13 | 500 | 574 |

6.13 Recovery 2

| | | | | | | | | | | | | | | | | |
|-----|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 1 | 80.0 | 30.0 | 764.0 | 0.29 | 515 | 634 | 748 | 2973 | 3004 | 3038 | 0.337 | 0.399 | 0.467 | 2.02 | 100 | 148 |
| 2 | 80.0 | 30.0 | 195.7 | 0.29 | 545 | 636 | 729 | 2955 | 3003 | 3057 | 0.359 | 0.402 | 0.455 | 1.97 | 100 | 154 |
| 3 | 80.0 | 30.0 | 188.1 | 0.30 | 580 | 662 | 750 | 2973 | 3007 | 3049 | 0.384 | 0.418 | 0.477 | 1.96 | 100 | 157 |
| 4 | 80.0 | 30.0 | 180.3 | 0.31 | 598 | 668 | 742 | 2969 | 3006 | 3049 | 0.406 | 0.422 | 0.468 | 1.93 | 100 | 157 |
| 5 | 80.0 | 30.0 | 177.3 | 0.30 | 595 | 667 | 739 | 2967 | 3005 | 3050 | 0.412 | 0.422 | 0.465 | 1.92 | 100 | 158 |
| 6 | 80.0 | 30.0 | 175.6 | 0.30 | 588 | 664 | 737 | 2965 | 3004 | 3047 | 0.407 | 0.420 | 0.452 | 1.89 | 100 | 159 |
| 7 | 80.0 | 30.0 | 173.2 | 0.30 | 587 | 661 | 739 | 2961 | 3003 | 3047 | 0.410 | 0.418 | 0.462 | 1.89 | 100 | 159 |
| 8 | 80.0 | 30.0 | 172.0 | 0.30 | 584 | 660 | 736 | 2956 | 3003 | 3048 | 0.407 | 0.417 | 0.457 | 1.89 | 100 | 161 |
| 9 | 80.0 | 30.0 | 170.4 | 0.31 | 599 | 673 | 749 | 2971 | 3007 | 3052 | 0.408 | 0.425 | 0.466 | 1.89 | 100 | 163 |
| 10 | 80.0 | 30.0 | 170.1 | 0.31 | 595 | 675 | 744 | 2971 | 3005 | 3049 | 0.416 | 0.426 | 0.472 | 1.88 | 100 | 161 |
| 11 | 80.0 | 30.0 | 170.8 | 0.31 | 611 | 685 | 755 | 2969 | 3005 | 3047 | 0.427 | 0.433 | 0.482 | 1.87 | 100 | 161 |
| 12 | 80.0 | 30.0 | 168.8 | 0.31 | 595 | 671 | 743 | 2960 | 3004 | 3051 | 0.410 | 0.424 | 0.456 | 1.87 | 100 | 163 |
| 13 | 80.0 | 30.0 | 169.4 | 0.31 | 598 | 680 | 754 | 2967 | 3003 | 3044 | 0.419 | 0.430 | 0.467 | 1.84 | 100 | 161 |
| 14 | 80.0 | 30.0 | 169.4 | 0.31 | 604 | 680 | 747 | 2965 | 3003 | 3044 | 0.411 | 0.430 | 0.470 | 1.84 | 100 | 161 |
| 15 | 80.0 | 30.0 | 170.4 | 0.31 | 595 | 673 | 748 | 2971 | 3007 | 3053 | 0.418 | 0.425 | 0.458 | 1.87 | 100 | 162 |
| 16 | 80.0 | 30.0 | 168.4 | 0.31 | 599 | 670 | 748 | 2967 | 3006 | 3053 | 0.417 | 0.424 | 0.452 | 1.85 | 100 | 163 |
| 17 | 80.0 | 30.0 | 168.4 | 0.31 | 596 | 671 | 745 | 2966 | 3005 | 3054 | 0.421 | 0.424 | 0.452 | 1.85 | 100 | 164 |
| 18 | 80.0 | 30.0 | 168.6 | 0.30 | 590 | 666 | 741 | 2966 | 3005 | 3051 | 0.416 | 0.421 | 0.459 | 1.84 | 100 | 163 |
| Min | 80.0 | 30.0 | 168.4 | 0.3 | 515 | 634 | 729 | 2955 | 3003 | 3038 | 0.337 | 0.399 | 0.452 | 1.84 | 100 | 148 |
| Avg | 80.0 | 30.0 | 206.7 | 0.3 | 587 | 666 | 744 | 2966 | 3005 | 3049 | 0.405 | 0.421 | 0.463 | 1.89 | 100 | 160 |
| Max | 80.0 | 30.0 | 764.0 | 0.3 | 611 | 685 | 755 | 2973 | 3007 | 3057 | 0.427 | 0.433 | 0.482 | 2.02 | 100 | 164 |



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D562

| Stop | Brake Speed kph | Release Speed kph | Cycle Time sec | Decel Torque g | Min Torque N*m | Avg Torque N*m | Max Torque N*m | Min Press kPa | Avg Pres Time kPa | Max Press kPa | Init μ | Avg μ Time | Final μ | Max Fluid Disp cm³ | Init Rotor °C | Final Rotor °C |
|--------------------|--------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------------|------------------|--------|---------------|---------|-----------------------|------------------|-------------------|
| 6.14 Fade 2 | | | | | | | | | | | | | | | | |
| 1 | 100.0 | 2.9 | 152.2 | 0.41 | 846 | 887 | 969 | 3125 | 3694 | 5090 | 0.364 | 0.458 | 0.536 | 2.33 | 100 | 215 |
| 2 | 100.0 | 2.9 | 14.1 | 0.40 | 837 | 880 | 915 | 3353 | 3656 | 4262 | 0.411 | 0.457 | 0.463 | 2.01 | 198 | 325 |
| 3 | 100.0 | 2.9 | 17.0 | 0.40 | 835 | 877 | 942 | 3698 | 3902 | 4406 | 0.407 | 0.427 | 0.419 | 2.04 | 281 | 411 |
| 4 | 100.0 | 2.9 | 29.6 | 0.40 | 834 | 874 | 914 | 3971 | 4306 | 4662 | 0.411 | 0.387 | 0.375 | 2.14 | 330 | 456 |
| 5 | 100.0 | 2.9 | 36.6 | 0.40 | 829 | 872 | 916 | 4165 | 4714 | 5294 | 0.394 | 0.354 | 0.348 | 2.32 | 367 | 487 |
| 6 | 99.9 | 2.9 | 38.7 | 0.40 | 833 | 871 | 908 | 4230 | 4790 | 5457 | 0.386 | 0.348 | 0.337 | 2.39 | 397 | 514 |
| 7 | 100.0 | 2.9 | 41.0 | 0.40 | 827 | 870 | 904 | 4226 | 4666 | 5439 | 0.393 | 0.357 | 0.332 | 2.42 | 423 | 539 |
| 8 | 99.9 | 2.9 | 42.0 | 0.40 | 834 | 869 | 900 | 4261 | 4662 | 5479 | 0.387 | 0.357 | 0.324 | 2.43 | 445 | 560 |
| 9 | 100.0 | 2.9 | 41.7 | 0.40 | 836 | 870 | 911 | 4346 | 4687 | 5491 | 0.383 | 0.354 | 0.325 | 2.45 | 464 | 573 |
| 10 | 100.0 | 2.9 | 39.2 | 0.40 | 838 | 869 | 911 | 4404 | 4731 | 5519 | 0.381 | 0.351 | 0.319 | 2.48 | 483 | 590 |
| 11 | 99.9 | 2.9 | 38.1 | 0.40 | 836 | 868 | 905 | 4482 | 4855 | 5728 | 0.372 | 0.341 | 0.304 | 2.55 | 497 | 605 |
| 12 | 100.0 | 2.9 | 37.3 | 0.40 | 825 | 869 | 908 | 4344 | 4822 | 5794 | 0.369 | 0.344 | 0.299 | 2.58 | 512 | 616 |
| 13 | 100.0 | 2.9 | 36.0 | 0.40 | 813 | 868 | 901 | 4316 | 4910 | 5984 | 0.361 | 0.337 | 0.275 | 2.67 | 525 | 626 |
| 14 | 100.0 | 2.9 | 35.8 | 0.40 | 811 | 868 | 910 | 4244 | 5002 | 6103 | 0.351 | 0.332 | 0.269 | 2.73 | 539 | 636 |
| 15 | 99.9 | 2.9 | 35.5 | 0.40 | 807 | 868 | 916 | 4334 | 5135 | 6176 | 0.341 | 0.323 | 0.261 | 2.78 | 549 | 646 |
| Min | 99.9 | 2.9 | 14.1 | 0.4 | 807 | 868 | 900 | 3125 | 3656 | 4262 | 0.341 | 0.323 | 0.261 | 2.01 | 100 | 215 |
| Avg | 100.0 | 2.9 | 42.3 | 0.4 | 830 | 872 | 915 | 4100 | 4569 | 5392 | 0.381 | 0.368 | 0.346 | 2.42 | 407 | 520 |
| Max | 100.0 | 2.9 | 152.2 | 0.4 | 846 | 887 | 969 | 4482 | 5135 | 6176 | 0.411 | 0.458 | 0.536 | 2.78 | 549 | 646 |

| | | | | | | | | | | | | | | | | |
|------------------------|------|------|-------|------|-----|-----|-----|------|------|------|-------|-------|-------|------|-----|-----|
| 6.15 Recovery 3 | | | | | | | | | | | | | | | | |
| 1 | 80.0 | 30.0 | 830.3 | 0.29 | 501 | 632 | 734 | 2957 | 3003 | 3050 | 0.309 | 0.397 | 0.460 | 2.39 | 100 | 156 |
| 2 | 80.0 | 30.0 | 199.3 | 0.31 | 563 | 671 | 756 | 2964 | 3007 | 3055 | 0.364 | 0.422 | 0.470 | 2.32 | 100 | 161 |
| 3 | 80.0 | 30.0 | 187.8 | 0.30 | 568 | 661 | 735 | 2961 | 3007 | 3057 | 0.364 | 0.417 | 0.456 | 2.28 | 100 | 163 |
| 4 | 80.0 | 30.2 | 179.8 | 0.31 | 596 | 685 | 762 | 2961 | 3005 | 3050 | 0.390 | 0.432 | 0.486 | 2.25 | 100 | 164 |
| 5 | 80.0 | 30.0 | 175.7 | 0.30 | 567 | 662 | 729 | 2962 | 3004 | 3051 | 0.371 | 0.418 | 0.453 | 2.20 | 100 | 165 |
| 6 | 80.0 | 30.0 | 172.7 | 0.31 | 593 | 681 | 751 | 2961 | 3003 | 3043 | 0.388 | 0.430 | 0.469 | 2.13 | 100 | 165 |
| 7 | 80.0 | 30.0 | 170.9 | 0.30 | 573 | 659 | 729 | 2961 | 3003 | 3052 | 0.382 | 0.416 | 0.453 | 2.11 | 100 | 167 |
| 8 | 80.0 | 30.0 | 169.7 | 0.31 | 584 | 668 | 742 | 2958 | 3007 | 3062 | 0.383 | 0.421 | 0.453 | 2.06 | 100 | 169 |
| 9 | 80.0 | 30.0 | 170.5 | 0.31 | 589 | 675 | 739 | 2964 | 3007 | 3050 | 0.390 | 0.426 | 0.457 | 2.01 | 100 | 166 |
| 10 | 80.0 | 30.0 | 167.9 | 0.30 | 576 | 655 | 727 | 2957 | 3005 | 3060 | 0.380 | 0.414 | 0.443 | 1.99 | 100 | 168 |
| 11 | 80.0 | 30.0 | 167.8 | 0.30 | 575 | 659 | 718 | 2963 | 3005 | 3049 | 0.386 | 0.416 | 0.445 | 1.96 | 100 | 165 |
| 12 | 80.0 | 30.0 | 166.6 | 0.30 | 580 | 666 | 727 | 2967 | 3004 | 3045 | 0.393 | 0.421 | 0.452 | 1.96 | 100 | 165 |
| 13 | 80.0 | 30.0 | 167.6 | 0.30 | 575 | 656 | 715 | 2961 | 3003 | 3049 | 0.380 | 0.415 | 0.446 | 1.92 | 100 | 165 |
| 14 | 80.0 | 30.0 | 167.9 | 0.30 | 576 | 659 | 714 | 2963 | 3003 | 3043 | 0.391 | 0.417 | 0.441 | 1.91 | 100 | 164 |
| 15 | 80.0 | 30.0 | 166.1 | 0.30 | 571 | 651 | 713 | 2963 | 3007 | 3053 | 0.383 | 0.411 | 0.435 | 1.89 | 100 | 165 |
| 16 | 80.0 | 30.0 | 168.8 | 0.30 | 561 | 648 | 702 | 2965 | 3005 | 3050 | 0.379 | 0.409 | 0.431 | 1.89 | 100 | 164 |
| 17 | 80.0 | 30.0 | 167.2 | 0.30 | 566 | 646 | 707 | 2961 | 3005 | 3059 | 0.386 | 0.408 | 0.438 | 1.88 | 100 | 168 |
| 18 | 80.0 | 30.0 | 167.5 | 0.30 | 577 | 662 | 718 | 2964 | 3003 | 3047 | 0.396 | 0.418 | 0.444 | 1.85 | 100 | 166 |
| Min | 80.0 | 30.0 | 166.1 | 0.3 | 501 | 632 | 702 | 2957 | 3003 | 3043 | 0.309 | 0.397 | 0.431 | 1.85 | 100 | 156 |
| Avg | 80.0 | 30.0 | 209.1 | 0.3 | 572 | 661 | 729 | 2962 | 3005 | 3051 | 0.379 | 0.417 | 0.452 | 2.05 | 100 | 165 |
| Max | 80.0 | 30.2 | 830.3 | 0.3 | 596 | 685 | 762 | 2967 | 3007 | 3062 | 0.396 | 0.432 | 0.486 | 2.39 | 100 | 169 |