

Turbo Cooling Tests: Water Cooled System, Red One

Air Cooled Ground Run vs. Hot Weather Liquid Cooled Ground Run Temperatures

| Time After Shutdown minutes | Liquid Cooling System: Hot Weather Ground Run 091418 | | | ACV-SB-091616-18 Configuration: Red One (open-sided Shroud) Ground Run | | |
|--------------------------------|--|---------|---------|--|---------|---------|
| | Turbine | Bearing | Ambient | Turbine | Bearing | Ambient |
| Engine Running -4 | 617 | 198 | 104 | | | |
| Engine Running -3 | 754 | 229 | | | | |
| Engine Running -2 | 772 | 223 | 130 | | | |
| Engine Running -1 | 842 | 265 | 187 | | | |
| Shutdown +0 | 844 | 265 | | 616 | 215 | 144 |
| Shutdown +1 | 826 | 218 | 196 | | | |
| Shutdown +2 | | | | | | |
| Shutdown +3 | 780 | 229 | 196 | | | |
| Shutdown +4 | | | | | | |
| Shutdown +5 | 730 | 235 | 190 | 547 | 260 | 158 |
| Shutdown +6 | | | | | | |
| Shutdown +7 | 685 | 230 | 190 | | | |
| Shutdown +8 | | | | | | |
| Shutdown +9 | 645 | 230 | 187 | | | |
| Shutdown +10 | | | | 473 | 263 | 146 |
| Shutdown +11 | 605 | 225 | 183 | | | |
| Shutdown +12 | | | | | | |
| Shutdown +13 | 570 | 218 | 180 | | | |
| Shutdown +14 | | | | | | |
| Shutdown +15 | 530 | 215 | 178 | 418 | 270 | 144 |
| Shutdown +16 | | | | | | |
| Shutdown +17 | 505 | 208 | 175 | | | |
| Shutdown +18 | | | | | | |
| Shutdown +19 | 475 | 196 | 170 | | | |
| Shutdown +20 | | | | 385 | 268 | 144 |
| Shutdown +21 | 455 | 193 | 168 | | | |
| Shutdown +22 | | | | | | |
| Shutdown +23 | 430 | 189 | 167 | | | |
| Shutdown +24 | | | | | | |
| Shutdown +25 | 409 | 178 | 162 | 346 | 256 | 139 |
| Shutdown +26 | | | | | | |
| Shutdown +27 | 390 | 175 | 157 | | | |
| Shutdown +28 | | | | | | |
| Shutdown +29 | 360 | 168 | 151 | | | |
| Shutdown +30 | | | | 317 | 245 | 135 |
| Shutdown +31 | 348 | 165 | 148 | | | |
| Shutdown +32 | | | | | | |
| Shutdown +33 | 328 | 164 | 124 | | | |
| Shutdown +34 | | | | | | |
| Shutdown +35 | 310 | 155 | 103 | 277 | 236 | 130 |
| Shutdown +36 | | | | | | |
| Shutdown +37 | 297 | 146 | 101 | | | |
| Shutdown +38 | | | | | | |
| Shutdown +39 | 295 | 142 | 99 | | | |
| Shutdown +40 | 280 | 146 | 101 | | | |
| Shutdown +41 | | | | 261 | 218 | 124 |
| Shutdown +42 | 260 | 160 | 101 | | | |
| Shutdown +43 | | | | | | |
| Shutdown +44 | 254 | 164 | 101 | | | |
| Shutdown +45 | | | | | | |
| Shutdown +46 | 240 | 165 | 98 | 248 | 212 | 122 |
| Shutdown +47 | | | | | | |
| Shutdown +48 | 234 | 158 | 100 | | | |
| Shutdown +49 | | | | | | |
| Shutdown +49 | 223 | 157 | 100 | | | |

■ Fan + Pump Off
■ Fan + Pump Switched to AUTO
■ Fan + Pump AUTO Off

