

### Reference Value Symptom Chart

The Reference Value Symptom Chart provides guidance in selecting the appropriate parameter identification (PID) or measured signal related to the fault area. Select a symptom from the symptom chart along with the category number and go to the PID/Measured Signal Chart. For multiple symptoms, select the symptom that is the most evident.

#### Symptom Chart

| Symptom Occurs During | Symptom                    | Category Number |
|-----------------------|----------------------------|-----------------|
| <b>Startup:</b>       | No start/Normal crank      | 1               |
|                       | Hard start/Long crank      | 2               |
|                       | Stall after start          | 3               |
|                       | Diesels/Runs on            | 4               |
| <b>Idle:</b>          | MIL                        | 5               |
|                       | Stalls/Quits               | 6               |
|                       | Slow                       | 7               |
|                       | Slow return                | 8               |
|                       | Rolling                    | 9               |
|                       | Fast                       | 10              |
|                       | Rough                      | 11              |
|                       | Misses                     | 12              |
|                       | Backfires                  | 13              |
| <b>Acceleration:</b>  | Stalls/Quits               | 6               |
|                       | Misses                     | 12              |
|                       | Bucks/Jerks                | 14              |
|                       | Backfires                  | 13              |
|                       | Hesitation                 | 15              |
|                       | Lack/Loss of power         | 16              |
|                       | Surge                      | 17              |
|                       | Spark knock                | 18              |
|                       | Cooling system temperature | 19              |
|                       | Poor fuel economy          | 20              |
|                       | Emissions compliance       | 21              |
| <b>Cruise:</b>        | Stalls/Quits               | 6               |
|                       | Misses                     | 12              |
|                       | Bucks/Jerks                | 14              |
|                       | Backfires                  | 13              |
|                       | Lack/Loss of power         | 16              |
|                       | Surge                      | 17              |
|                       | Spark knock                | 18              |
|                       | Cooling system temperature | 19              |

| Symptom Occurs During | Symptom              | Category Number |
|-----------------------|----------------------|-----------------|
|                       | Poor fuel economy    | 20              |
|                       | Emissions compliance | 21              |
| <b>Deceleration:</b>  | Stalls/Quits         | 6               |
|                       | Backfires            | 13              |

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