

## Operator Troubleshooting

The following table lists the most common problems that may be encountered by operators. If the problem cannot be solved using the corrective actions listed in this table, notify maintenance personnel.

### Engine\*

| SYMPTOM                                   | PROBABLE CAUSE                      | CORRECTIVE ACTION                                                   |
|-------------------------------------------|-------------------------------------|---------------------------------------------------------------------|
| Engine turns over but fails to start      | Fuel filter blocked                 | Replace filter                                                      |
|                                           | Fuel tank empty                     | Fill tank                                                           |
|                                           | Fuel shutoff valve at tank closed   | Open valve                                                          |
| Engine fails to turn over                 | Battery disconnect switches open    | Close switches                                                      |
|                                           | Transmission not in neutral         | Place lever in neutral                                              |
|                                           | Battery Low                         | Have charging system checked                                        |
|                                           | Battery terminals corroded or loose | Clean and tighten terminals                                         |
| Engine runs unsteady and power output low | Insufficient fuel supply            | Clean fuel strainers, replace filter, fill tank, tighten fuel lines |
|                                           | Contaminated fuel                   | Drain tank, lines, clean strainers, and replace fuel                |
|                                           | Wrong fuel                          | Drain tank and fill with proper fuel                                |
|                                           | Air intake restricted               | Remove restriction                                                  |
| Exhaust smokes badly                      | Too much oil in sump                | Drain to proper level                                               |
|                                           | Air intake restricted               | Remove restriction                                                  |
| Engine overheats                          | Radiator fins restricted            | Clean fins                                                          |
|                                           | Low coolant level                   | Check coolant level                                                 |
| Engine oil pressure low                   | Low oil level                       | Check oil level                                                     |
|                                           | Oil leaks                           | Tighten connections                                                 |
|                                           | Contaminated Oil                    | Change oil and filters                                              |

### Transmission / Converter\*

| SYMPTOM                             | PROBABLE CAUSE                    | CORRECTIVE ACTION              |
|-------------------------------------|-----------------------------------|--------------------------------|
| Transmission or converter overheats | Low oil level                     | Fill to proper level           |
|                                     | Oil cooler restricted             | Remove restriction             |
| Lack of power                       | Low engine rpm at converter stall | Have engine checked (governor) |

### Wet Disk Brake System

| SYMPTOM                    | PROBABLE CAUSE                | CORRECTIVE ACTION                    |
|----------------------------|-------------------------------|--------------------------------------|
| Loss of braking efficiency | Air in hydraulic brake system | Check pump                           |
|                            | Loss of accumulator pressure  | Have maintenance check system        |
|                            | Low system pressure           | Wait for system pressure to recharge |

\* Also see manufacturer's Operation and Maintenance Manual for additional information

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## Hydraulic System

| SYMPTOM                                    | PROBABLE CAUSE                  | CORRECTIVE ACTION                                              |
|--------------------------------------------|---------------------------------|----------------------------------------------------------------|
| No response to controls                    | Closed tank shutoff valve       | Open valve                                                     |
|                                            | Low oil level                   | Fill tank to proper level                                      |
|                                            | Implement controls switch “off” | Turn switch to “on”                                            |
| Sluggish operation or response to controls | Hydraulic oil cold              | Allow adequate warm-up time                                    |
|                                            | Low oil level                   | Fill tank to proper level                                      |
|                                            | Suction leak                    | Correct suction leak                                           |
|                                            | Plugged tank breather           | Replace breather                                               |
|                                            | Restriction in circuit          | Remove restriction, check filters                              |
|                                            | Pump speed too slow             | Check engine speed                                             |
| Excessive noise                            | Cavitation                      | Eliminate restriction in suction line<br>Replace tank breather |
|                                            | Aeration                        | Fill tank to proper level<br>Correct suction leak              |
|                                            | Tubing vibration                | Tighten mounting clamps                                        |
| Hydraulic system over-heating              | Low oil level                   | Fill tank to proper level                                      |
|                                            | Operating over pressure reliefs | Correct operating procedure                                    |

## Electrical System

| SYMPTOM                       | PROBABLE CAUSE                        | CORRECTIVE ACTION                         |
|-------------------------------|---------------------------------------|-------------------------------------------|
| Engine fails to turn over     | Battery disconnect switch open        | Close switch                              |
|                               | Neutral start switch open             | Place transmission shift lever in neutral |
|                               | Battery low                           | Have start / charge system tested         |
|                               | Battery terminals corroded or loose   | Clean and tighten terminals               |
|                               | Other connections loose               | Tighten connections                       |
| Seat won't rotate             | Circuit breaker on dash has tripped   | Reset circuit breaker                     |
| Voltmeter indicates discharge | Alternator drive belt slipping        | Tighten or replace belt                   |
|                               | Loose or corroded battery connections | Clean and tighten terminals               |