



Index

A

| | |
|--------------------------------|--------------------------------------|
| Air Filter | 6-4, 6-18 |
| Service Indicator | 6-4, 6-10, 6-18 |
| Air Intake System | 2-4, 7-28 |
| Alarm | |
| High Coolant Temperature | 4-1 |
| High Coolant Temperature Input | 3-8 |
| Low Oil Pressure Input | 3-8 |
| Overspeed | 3-8 |
| Alternator | 7-11 |
| Belt Tensioner | 6-22 |
| Drive Belt | 3-3, 6-17, 6-22, 7-11 |
| Drive Belt Tension | 6-18 |
| Pulley | 7-11 |
| Rotor | 7-11 |
| Annual Maintenance | 6-10 |
| Antifreeze, <i>see Coolant</i> | |
| AUTO/MANUAL Mode | 3-12, 4-2, 5-1 |
| Power Source | 3-8 |
| Switch | 3-12, 4-2, 5-1, 5-2, 5-3, 7-18, 7-20 |
| Switch Locking Button | 3-12, 5-2, 5-3 |

B

| | |
|----------------------------|-----------------|
| Batteries | 3-6, 7-11 |
| Auxiliary Battery Starting | 3-6 |
| Cable Kit | 3-6 |
| Cables | 6-8, 6-10, 7-22 |
| Cell Specific Gravity | 3-6 |
| Charge | 7-12 |
| Cold Cranking Amps | 3-5 |
| Condition | 6-8 |
| Continuity | 6-8 |
| Electrolyte | 3-6, 6-8 |
| Hydrometer | 6-8 |
| Installation | 3-6 |
| Isolator | 7-11 |
| Selection | 3-5 |
| Specific Gravity | 6-8 |
| Voltmeters | 4-2 |
| Bill of Lading | 3-1 |

C

| | |
|----------------------------------|-----------------------|
| Charge Air Cooler System | 3-9 |
| Charge Air Cooler/Heat Exchanger | 2-4, 2-5, 6-4 |
| Cleaning | 6-23 |
| Cleaning Solution | 6-23 |
| Restriction | 7-25 |
| Circuit Breaker | 4-2, 6-11, 7-12, 7-18 |
| Claim Filing Procedure | 3-1 |
| Combustible Fumes | 7-26 |
| Combustion Air | 2-4 |
| Coolant | |
| Check | 6-9, 6-10 |
| Drain and Flush | 6-19 |
| Drain at hose | 6-20 |
| Expansion Tank Pressure/Fill Cap | 7-14 |
| Filter | 7-28 |
| Heat Exchanger | 3-4, 6-4, 7-13 |
| Heat Exchanger Pressure Test | 6-18 |
| Heater | 3-9, 6-9, 7-16 |
| High Temperature Alarm | 3-8, 4-1 |
| High Temperature Set Point | 4-1 |
| High Temperature Warning Lamp | 4-1 |
| Hoses | 3-8 |
| Leaks | 7-14 |
| Level | 7-14 |
| Maximum Temperature | 2-8 |
| Mixture | 2-8 |
| Refractometer | 6-10 |
| Temperature | 7-15 |
| Temperature Gauge | 4-1, 7-16 |
| Temperature Sender | 7-16, 7-17 |
| Thermostat | 7-16 |
| Coolant Pump | 7-16 |
| Belt Tensioner | 6-22 |
| Drive Belt | 6-17, 6-22, 7-11 |
| Drive Belt Tension | 6-18 |
| Inspection | 6-19 |
| Troubleshooting | 7-16 |
| Cooling System | |
| Inspection | 6-4 |
| Corrosion | 6-4 |
| CRANK BATT A/B Switch | 3-13, 4-3, 5-2 |
| CRANK Signal | 5-1 |

Index

| | | |
|---|-----------------------|--|
| CRANK TERMINATE | | |
| Input | 3-8 | |
| Potentiometer | 6-15 | |
| Set Point | 5-4, 6-15 | |
| Signal | 5-1, 7-29 | |
| Crankcase Breather | 6-7 | |
| Cranking Systems Analyzer | 3-6 | |
| Crankshaft Rotation | 7-22 | |
| Customer Supplied Wiring | 3-6 | |
| D | | |
| Damage During Shipping | 3-1 | |
| Diesel Fuel | | |
| Recommendations | 3-4 | |
| Specifications | 3-3 | |
| Dipstick | 3-10 | |
| Drive Shaft | | |
| Grease Fittings | 3-3, 6-15 | |
| Lubrication | 6-14 | |
| Drive Shaft Universal Joint | 3-3 | |
| E | | |
| ECM | | |
| A/B Indicator Lights | 4-4 | |
| A/B Selector Switch | 5-2 | |
| Code | 4-4 | |
| Dataplate | 4-4 | |
| Date Code (DC) | 4-4 | |
| Fault Code Lights | 4-4, 5-4 | |
| Part Number (PN) | 4-4 | |
| Serial Number (SN) | 4-4 | |
| Electrical | | |
| Connections | 6-10 | |
| Continuity | 3-8, 7-17 | |
| Fault | 7-23 | |
| Electronic Control Module, <i>see</i> ECM | | |
| Electronic Fuel System | 2-9 | |
| Emergency Manual Mode Electrical Start | 5-3 | |
| Emission Levels | 2-1 | |
| Engine | | |
| Coolant Temperature | 6-4 | |
| Crankshaft Center Line | 3-2 | |
| Cylinder Head Pressure Test | 7-28 | |
| Heater | 6-9 | |
| Heater Power Supply | 6-20 | |
| Low Oil Pressure Alarm | 3-8 | |
| Mounting Bolts | 6-11 | |
| Noise | 6-9 | |
| Oil | 6-12, 6-13, 7-16 | |
| Oil Capacity | 6-13 | |
| Oil Dipstick | 3-10 | |
| Oil Filter Change | 6-12 | |
| Engine (continued) | | |
| Oil Filter Gasket | 6-13 | |
| Oil Level | 3-10, 6-5, 7-16, 7-22 | |
| Oil Pan Drain Plug | 6-12 | |
| Oil Pressure | 3-13, 6-4, 6-9 | |
| Oil Pressure Gauge | 4-1 | |
| Oil Recommendations | 3-10 | |
| Oil System | 2-9, 3-10, 6-5 | |
| Operating Speed | 5-3 | |
| Operating Speed (RPM) | 2-4 | |
| Operating Temperature | 3-13 | |
| Operation Report | 6-1 | |
| Overspeed | 4-6 | |
| Overspeed Set Point | 4-2 | |
| Protection Fault | 4-6 | |
| Serial Number (ESN) | 4-4 | |
| Shutdown Lamp | 4-4 | |
| Start Test | 3-11 | |
| Warning Lamp | 4-4 | |
| Equipment Placement and Assembly | 3-1 | |
| Exhaust System | 2-10, 6-7 | |
| Flex Pipe | 6-7 | |
| Manifold | 6-7, 7-26 | |
| Piping | 3-2 | |
| Expansion Tank Pressure/Fill Cap | 3-9 | |
| F | | |
| Factory Mutual Approval | 2-1 | |
| Fault Code | | |
| Chart | 7-3 | |
| Indicator Lights | 4-4, 5-4 | |
| Fire Pump Controller | 3-8 | |
| Control Power Connection | 3-8 | |
| Wiring | 3-8 | |
| Fluid Levels | 6-4 | |
| Fuel | | |
| Control System | 4-4 | |
| Injection Pump | 3-3, 7-26 | |
| Lift Pump | 3-3 | |
| Line Pressure | 6-6 | |
| Recommendations | 3-4 | |
| Return Connection | 3-3 | |
| Supply Connection | 2-9, 3-3 | |
| Supply Line | 6-6 | |
| Supply Valves (optional) | 6-14 | |
| System | 2-9, 7-21 | |
| System Inspection | 6-6 | |
| Tank | 3-3 | |
| Tank Breather | 7-24 | |

| | | | |
|---|----------------|--|--------------------------|
| Fuel Filter | 7-21 | O | |
| Change | 6-14 | Odors | 6-4 |
| Mounting Head | 6-14 | Oil Filter | |
| Pre-Filter/Water Separator | 3-3 | Change | 6-12 |
| Primary | 3-3 | Gasket | 6-13 |
| Fuel Pre-Filter/Water Separator | 3-3, 6-6, 7-21 | Oil, <i>see Engine Oil</i> | |
| Change | 6-14 | Open Circuit | 7-11 |
| Mounting Head | 6-14 | Operating Speed (RPM) | 2-4 |
| Fuel Pump | | Operating Temperature | 3-13 |
| Inspection | 6-12 | Operation Report | 6-1 |
| Solenoid Valve | 2-3 | Operator Control Panel | 2-3, 3-12, 5-1, 5-2 |
| Fuel Supply Connection | 3-3 | Operator's Control Panel | 3-12 |
| Fuel Tank | 3-3 | Overspeed | |
| G | | Module | 2-3 |
| Guards, Covers and Protective Devices | 1-1 | RESET/STOP Switch | 4-3 |
| H | | Set Point | 5-3, 6-16 |
| High Coolant Temperature Alarm | 3-8, 4-1 | Switch | 2-3, 3-8, 4-5 |
| Hose Clamps | 6-5 | Warning Light | 4-2 |
| Hoses | 7-15 | Overspeed Alarm | 3-8 |
| Hour Meter | 4-1 | P | |
| I | | Piston Ring Blowby | 7-28 |
| Inductive Charging | 3-6 | Power Supply | 7-16 |
| Insite™ Service Tool | 4-4 | Pre-Filter, Fuel | 3-3 |
| Instrument Panel, <i>see Operator Control Panel</i> | | Pressure/Fill Cap | 3-9 |
| Intake Manifold | 7-28 | Primary Fuel Filter, <i>see Fuel Filter</i> | |
| Integrated Acceptance Testing | 5-5 | Programmable Parameters | 7-24 |
| Isolated Acceptance Testing | 5-5 | R | |
| L | | Raw Water | |
| Lifting Hooks | 3-1 | Bypass Valves | 7-20 |
| Loose Wire Kit | 3-6 | Cooling System | 2-5 |
| Low Oil Pressure Alarm | 3-8 | Flow | 3-13 |
| Lubricating Oil, <i>see Engine Oil</i> | | Flow Control Valves | 4-5 |
| M | | Minimum Flow | 3-13 |
| Maintenance | 5-2 | Piping | 3-1, 3-4, 3-8, 6-4, 7-15 |
| MANUAL Local Start | 5-5 | Pressure Regulator | 7-13 |
| MANUAL Mode | 7-26 | Sediment | 6-7 |
| Manual Mode | 4-2 | Solenoid Valve | 7-17 |
| Manual Override Contactor A/B Levers | 3-13 | Supply | 3-4 |
| MANUAL START Position | 3-13 | Wye Strainer | 6-7, 7-15 |
| N | | Recommended Spare Parts | 8-1 |
| National Fire Protection Association (NFPA) | 3-1 | Refractometer | 6-10 |
| | | RESET Button | 4-2, 4-3 |
| | | Returned Goods Authorization (RGA) | 8-1 |
| | | Run Test | 6-9 |

Index

S

| | |
|---------------------------------------|------------|
| Safety | |
| Awareness | 1-1 |
| Precautions | 1-1 |
| Servo Drives | 7-1 |
| Shipping Manifest | 3-1 |
| Signal and Control Installation | 3-7 |
| Site Preparation | 3-1 |
| Speed INCREASE/DECREASE Toggle Switch | 6-16 |
| DEC Position | 6-16 |
| INC Position | 6-16 |
| Speed Sensor | 7-19, 7-30 |
| Starter Motor | 2-3, 7-23 |
| Start-Up Inspection (SUI) Checklist | 5-5 |
| STOP/RESET Switch | 5-3 |

T

| | |
|-----------------------|------------------|
| Tachometer | 4-1, 7-19 |
| Calibration | 7-25 |
| Temperature Gauge | 7-16 |
| Temperature Sender | 7-16 |
| Terminal Panels | 6-10 |
| Testing | 5-2 |
| Thermostat | 6-21, 7-16, 7-17 |
| Troubleshooting Chart | 7-11 |
| Turbocharger | 7-26 |
| Compressor Wheel | 3-10, 6-19 |
| Inspection | 6-18 |

V

| | |
|---------------------|-----------|
| Valve Lash Settings | 6-21 |
| Voltage Regulator | 7-11 |
| Voltmeters | 3-8, 6-11 |

W

| | |
|----------------------------------|-------------------------|
| Warning Lamps | 6-11 |
| High Coolant Temperature | 4-1, 4-3, 4-6 |
| Low Coolant Level | 4-6 |
| Low Coolant Temperature | 4-6 |
| Low Oil Level | 4-6 |
| Low Oil Pressure | 4-1, 4-3, 4-6 |
| Water Pump | <i>see Coolant Pump</i> |
| Water Separator/Pre-Filter, Fuel | 3-3 |
| Wire Damage | 7-12 |
| Wiring Harness | 6-10 |

Z

| | |
|-----------|------|
| Zinc Plug | 7-13 |
|-----------|------|