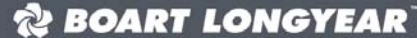




# LF<sup>TM</sup> 90D RECOMMENDED SPARES LIST

The following spare kits are recommended to help maximize your drilling up-time. Please contact your Boart Longyear sales representative for more information.



## Drill Serial Number Range: LF90D-2011-001 thru current

For Drill Build: DRILL MODULE, LF90D (3547154 Rev: G)  
Document Number: 5400779 Rev. A  
Effective Date: 1-Jan-2011

### KIT SUMMARY

| Level | 1       | 2 | 3 | Description                          | QTY | For Base Drill / Option                |
|-------|---------|---|---|--------------------------------------|-----|--|
| 1     | 5401285 |   |   | KIT, LF90D HYDRAULIC SPARES          | 1   | Basic Drill Assembly (3547421)         |
| 1     | 102629  |   |   | KIT, BASE FRAME SPARES               | 1   | Basic Drill Assembly (3547421)         |
| 1     | 3543686 |   |   | SEAL KIT, CYLINDER (MAST RAISE)      | 1   | Basic Drill Assembly (3547421)         |
| 1     | 3547271 |   |   | KIT, MAST SLIDE CYLINDER SEAL (DUMP) | 1   | Basic Drill Assembly (3547421)         |
| 1     | 3546947 |   |   | KIT, LF90 DRAW WORKS SPARES          | 1   | Basic Drill Assembly (3547421)         |
| 1     | 3546941 |   |   | KIT, 16K BRADEN HOIST SPARES         | 1   | Basic Drill Assembly (3547421)         |
| 1     | 3545276 |   |   | KIT, LOWER MAST ASM SPARES           | 1   | Basic Drill Assembly (3547421)         |
| 1     | 306085  |   |   | KIT, ROD CLAMP SPARES                | 1   | Basic Drill Assembly (3547421)         |
| 1     | 3544255 |   |   | VALVE ASM, LOCK LEVELING JACK        | 1   | Hydraulic Leveling Jacks (3547654)     |
| 1     | 3544256 |   |   | KIT, LOCK VALVE ASM SEAL             | 1   | Hydraulic Leveling Jacks (3547654)     |
| 1     | 5402615 |   |   | KIT, QSB6.7 FILTER 1000HRS           | 1   | Cummins Engine / Pump Module (5000086) |
| 1     | 5401276 |   |   | KIT, QSB6.7 SPARES TIER3             | 1   | Cummins Engine / Pump Module (5000086) |
| 1     | 5401277 |   |   | KIT, QSB6.7 CTRL PANEL SPARES        | 1   | Cummins Engine / Pump Module (5000086) |
| 1     | 3547283 |   |   | SEAL KIT, PVP33 ROXROTH PUMP         | 1   | Cummins Engine / Pump Module (5000086) |
| 1     | 3540345 |   |   | SEAL KIT, HYD PUMP 19CC              | 1   | Cummins Engine / Pump Module (5000086) |
| 1     | 5401278 |   |   | KIT, PQ HEAD OP SPARES LF90D         | 1   | PQ Nitro Chuck™ Head (3547742)         |
| 1     | 102631  |   |   | KIT, W11 SPARES                      | 1   | W11 Fluid Circulation Pump (3549549)   |
| 1     | 5400489 |   |   | KIT, W11 BEAN PUMP LINER             | 1   | W11 Fluid Circulation Pump (3549549)   |
| 1     | 3544481 |   |   | SEAL KIT, MOTOR                      | 1   | W11 Fluid Circulation Pump (3549549)   |
| 1     | 5401289 |   |   | KIT, L09 PUMP MODULE SPARES          | 1   | Diesel Powered Supply Pump (3670446)   |
| 1     | 102633  |   |   | KIT, MUD MIXER PORTABLE SPARES       | 1   | Portable Mud Mixer (102306)            |
| 1     | 3541118 |   |   | KIT, MUD MIXER 250GAL SPARES         | 1   | Mud Tank & Mixer (3540997)             |

Level 1 - Part numbers to order for a complete kit.

Level 2 & 3 - Part numbers represent the items included in complete kits. They are also available for individual purchase. (Some exceptions apply)

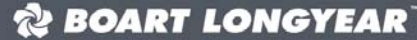
### SPARES FOR BASIC DRILL ASSEMBLY - DETAIL

| Level | 1       | 2       | 3       | Description                                  | QTY   | For Base Drill / Option        |
|-------|---------|---------|---------|--|-------|--------------------------------|
| 1     | 5401285 |         |         | KIT, LF90D HYDRAULIC SPARES                  | 1     | Basic Drill Assembly (3547421) |
| 2     |         | 5401275 |         | KIT, LF90D HYD FILTER 1000HRS                | 1     |                                |
| 3     |         |         | 100236  | ELEMENT, MAIN RETURN FILTER                  | 4     |                                |
| 3     |         |         | 3547610 | ELEMENT, SPIN-ON FILTER                      | 2     |                                |
| 3     |         |         | 3547872 | ELEMENT, SPIN-ON FILTER                      | 2     |                                |
| 3     |         |         | 100190  | ELEMENT, HYD OIL SUC FILTER                  | 2     |                                |
| 2     |         | 3548136 |         | GAUGE, PRESSURE (0-3000 PSI)                 | 2     |                                |
| 2     |         | 3548137 |         | GAUGE, PRESSURE (0-5000 PSI)                 | 1     |                                |
| 2     |         | 96770   |         | SEAL KIT, CARTRIDGE                          | 1     |                                |
| 2     |         | 96772   |         | SEAL KIT, CARTRIDGE                          | 1     |                                |
| 2     |         | 96653   |         | SEAL PLATE KIT                               | 1     |                                |
| 2     |         | 96773   |         | HYD HOSE 1/4", PRESSURE (SAE 100R2)          | 15 FT |                                |
| 2     |         | 96774   |         | HYD HOSE 3/8", PRESSURE (SAE 100R2)          | 15 FT |                                |
| 2     |         | 96775   |         | HYD HOSE 1/2", PRESSURE (SAE 100R2)          | 15 FT |                                |
| 2     |         | 96793   |         | HYD HOSE 3/4", SUCTION (SAE 100R4)           | 3 FT  |                                |
| 2     |         | 96779   |         | HOSE END FITTING, 1/4" HOSE X #4 JIC         | 2     |                                |
| 2     |         | 96781   |         | HOSE END FITTING, 3/8" HOSE X #6 JIC         | 1     |                                |
| 2     |         | 96782   |         | HOSE END FITTING, 1/2" HOSE X 1/2" MALE PIPE | 1     |                                |
| 2     |         | 96783   |         | HOSE END FITTING, 1/2" HOSE X #8 JIC         | 2     |                                |
| 2     |         | 96784   |         | HOSE END FITTING, 3/4" HOSE X 3/4" MALE PIPE | 1     |                                |
| 2     |         | 96785   |         | HOSE END FITTING, 3/4" HOSE X #12 JIC        | 1     |                                |
| 2     |         | 96787   |         | HOSE END FITTING, 1" HOSE X #16 JIC          | 2     |                                |
| 2     |         | 96789   |         | HOSE END FITTING, 1/4" HOSE X #4 JIC X 90°   | 1     |                                |
| 2     |         | 96790   |         | HOSE END FITTING, 3/4" HOSE X #12 JIC X 90°  | 1     |                                |



# LF<sup>TM</sup> 900 RECOMMENDED SPARES LIST

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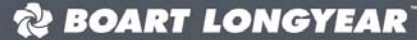
## SPARES FOR BASIC DRILL ASSEMBLY - DETAIL (continued)

| Level | 1       | 2       | 3 | Description                          | QTY | For Base Drill / Option        |
|-------|---------|---------|---|--------------------------------------|-----|--------------------------------|
| 1     | 102629  |         |   | KIT, BASE FRAME SPARES               | 1   | Basic Drill Assembly (3547421) |
| 2     |         | 21875   |   | BATTERY, 12V 163 AMPS                | 1   |                                |
| 2     |         | 100290  |   | BREATHER, LF70 TANK FILLER           | 1   |                                |
| 1     | 3543686 |         |   | SEAL KIT, CYLINDER (MAST RAISE)      | 1   | Basic Drill Assembly (3547421) |
| 1     | 3547271 |         |   | KIT, MAST SLIDE CYLINDER SEAL (DUMP) | 1   | Basic Drill Assembly (3547421) |
| 1     | 3546947 |         |   | KIT, LF90 DRAW WORKS SPARES          | 1   | Basic Drill Assembly (3547421) |
| 2     |         | 3542247 |   | VALVE, COUNTERBALANCE                | 1   |                                |
| 2     |         | 100215  |   | VALVE, PILOT CHECK                   | 2   |                                |
| 2     |         | 100214  |   | VALVE, LF70 WINCH FEED SHUTTLE       | 1   |                                |
| 2     |         | 3546938 |   | KIT, 16K BRADEN HOIST SEAL           | 1   |                                |
| 2     |         | 104864  |   | CARTRIDGE, HYD CB 3:1                | 2   |                                |
| 2     |         | 104859  |   | BEARING, 4 BOLT FLANGE               | 1   |                                |
| 2     |         | 306208  |   | SEAL KIT, MOTOR                      | 1   |                                |
| 2     |         | 3543686 |   | SEAL KIT, CYLINDER                   | 2   |                                |
| 2     |         | 3543698 |   | CARTRIDGE, VALVE C/B 4.5:1           | 4   |                                |
| 1     | 3546941 |         |   | KIT, 16K BRADEN HOIST SPARES         | 1   | Basic Drill Assembly (3547421) |
| 2     |         | NA      |   | O-RING                               | 1   |                                |
| 2     |         | NA      |   | SEAL                                 | 1   |                                |
| 2     |         | NA      |   | O-RING                               | 2   |                                |
| 2     |         | 5006045 |   | RELIEF VALVE (7.5-15 PSI)            | 1   |                                |
| 2     |         | 5000736 |   | DISC FRICTION                        | 7   |                                |
| 2     |         | NA      |   | O-RING                               | 1   |                                |
| 2     |         | NA      |   | SEAL                                 | 1   |                                |
| 2     |         | NA      |   | SPIROL PIN                           | 3   |                                |
| 2     |         | NA      |   | BALL BEARING                         | 1   |                                |
| 2     |         | NA      |   | SPIROL PIN                           | 3   |                                |
| 2     |         | NA      |   | ROLLER BEARING                       | 3   |                                |
| 2     |         | NA      |   | THRUST WASHER                        | 6   |                                |
| 2     |         | NA      |   | BALL BEARING                         | 1   |                                |
| 2     |         | NA      |   | O-RING                               | 1   |                                |
| 2     |         | NA      |   | ROLLER BEARING                       | 6   |                                |
| 2     |         | NA      |   | THRUST WASHER                        | 6   |                                |
| 2     |         | NA      |   | BEARING SPACER                       | 3   |                                |
| 2     |         | NA      |   | PRESSURE PLATE                       | 1   |                                |
| 2     |         | NA      |   | BACKUP RING                          | 1   |                                |
| 2     |         | NA      |   | SPACER                               | 1   |                                |
| 2     |         | NA      |   | THRUST WASHER                        | 1   |                                |
| 2     |         | NA      |   | SEAL                                 | 1   |                                |
| 2     |         | 5400529 |   | DIE SPRING                           | 12  |                                |
| 2     |         | NA      |   | THRUST WASHER                        | 1   |                                |
| 2     |         | NA      |   | THRUST WASHER                        | 1   |                                |
| 2     |         | NA      |   | O-RING, FLUSH PLUG                   | 1   |                                |
| 2     |         | NA      |   | THRUST WASHER                        | 1   |                                |
| 2     |         | NA      |   | SETSCREW                             | 2   |                                |
| 2     |         | NA      |   | RETAINING RING                       | 2   |                                |
| 2     |         | NA      |   | O-RING                               | 1   |                                |
| 2     |         | 3547049 |   | SPRAG CLUTCH ASSY                    | 1   |                                |
| 2     |         | 5000735 |   | BRAKE DISC                           | 8   |                                |
| 2     |         | NA      |   | BACKUP RING                          | 1   |                                |
| 2     |         | NA      |   | SEAL, F12 VOAC MOTOR SHAFT           | 1   |                                |
| 1     | 3545276 |         |   | KIT, LOWER MAST ASM SPARES           | 1   | Basic Drill Assembly (3547421) |
| 2     |         | 3546460 |   | SHIM, 28 GAUGE .018"                 | 2   |                                |
| 2     |         | 3546462 |   | BAR, WEAR LF90PQ                     | 8   |                                |
| 2     |         | 102225  |   | BUSHING, LF70 SLIDE FR               | 3   |                                |
| 2     |         | 3546461 |   | SHIM, 30 GAUGE .015"                 | 2   |                                |
| 2     |         | 102166  |   | M/SCR, FLT HD 1/4UNC X 1/2 BRS       | 20  |                                |
| 2     |         | 3546115 |   | SEAL KIT, HYDRAULIC CYLINDER         | 1   |                                |
| 1     | 306085  |         |   | KIT, ROD CLAMP SPARES                | 1   | Basic Drill Assembly (3547421) |
| 2     |         | 96770   |   | KIT, CARTRIDGE SEAL                  | 1   |                                |
| 2     |         | 101536  |   | CPLG, 1/2 NPTF QD.                   | 1   |                                |
| 2     |         | 101537  |   | NIPPLE, 1/2 NPTF QD                  | 1   |                                |
| 2     |         | 43021   |   | SEAL KIT, HYD CYLINDER               | 2   |                                |



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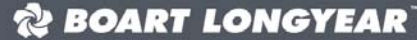
## SPARES FOR OPTIONAL EQUIPMENT - DETAIL

| Level | 1       | 2       | 3 | Description                               | QTY | For Base Drill / Option                |
|-------|---------|---------|---|---|-----|--|
| 1     | 3544255 |         |   | VALVE ASM, LOCK LEVELING JACK             | 1   | Hydraulic Leveling Jacks (3547654)     |
| 1     | 3544256 |         |   | KIT, LOCK VALVE ASM SEAL                  | 1   | Hydraulic Leveling Jacks (3547654)     |
| 1     | 5402615 |         |   | KIT, QSB6.7 FILTER 1000HRS                | 1   | Cummins Engine / Pump Module (5000086) |
| 2     |         | 5400182 |   | FILTER, QSB6.7 TIER 3 FUEL                | 2   |  |
| 2     |         | 3548470 |   | SEPARATOR, QSB6.7 TIER 3 FUEL             | 2   |  |
| 2     |         | 3548471 |   | FILTER, QSB6.7 TIER 3 LUBE OIL            | 4   |  |
| 2     |         | 5007082 |   | FILTER, AIR INNER ELEMENT                 | 2   |  |
| 2     |         | 5007083 |   | FILTER, AIR OUTER ELEMENT                 | 2   |  |
| 1     | 5401276 |         |   | KIT, QSB6.7 SPARES TIER3                  | 1   | Cummins Engine / Pump Module (5000086) |
| 2     |         | 3548476 |   | KIT, QSB6.7 WATER PUMP SPARES             | 1   |  |
| 2     |         | 5001972 |   | THERMOSTAT, QSB6.7 TIER 3                 | 1   |  |
| 2     |         | 3548478 |   | SEAL, QSB6.7 TIER 3 THERMOSTAT            | 1   |  |
| 2     |         | 3548479 |   | BELT, QSB6.7 TIER 3 WATER / FAN BELT PUMP | 2   |  |
| 2     |         | 5001973 |   | BELT, TENSIONER                           | 1   |  |
| 2     |         | 5001974 |   | INJECTOR                                  | 1   |  |
| 2     |         | 5001975 |   | CLAMP, RAD HOSE #32                       | 4   |  |
| 2     |         | 5001976 |   | CLAMP, RAD HOSE #40                       | 4   |  |
| 2     |         | 5001977 |   | CLAMP, RAD HOSE #10                       | 2   |  |
| 2     |         | 5001978 |   | HOSE, CHARGE AIR COOLER 3"ID              | 2   |  |
| 2     |         | 5001979 |   | HOSE, CHARGE AIR COOLER 4"ID              | 2   |  |
| 2     |         | 5001980 |   | HOSE, RAD UPPER                           | 2   |  |
| 2     |         | 5001981 |   | HOSE, RAD LOWER                           | 2   |  |
| 2     |         | 5001982 |   | CLAMP, HOSE 3" CAC                        | 4   |  |
| 2     |         | 5001983 |   | CLAMP, HOSE 4" CAC                        | 4   |  |
| 2     |         | 5001984 |   | HOSE, RAD FILL 3/4"                       | 1   |  |
| 2     |         | 5001985 |   | HOSE, RAD VENT 3/8"                       | 1   |  |
| 2     |         | 5001986 |   | FUSE, 5 AMP                               | 5   |  |
| 2     |         | 5001987 |   | FUSE, 15 AMP                              | 5   |  |
| 2     |         | 5001988 |   | FUSE, 20 AMP                              | 5   |  |
| 2     |         | 5001989 |   | SENSOR, COOLANT TEMP                      | 1   |  |
| 2     |         | 5001990 |   | SENSOR, AIR INTAKE TEMP                   | 1   |  |
| 2     |         | 3549537 |   | SENSOR, RPM                               | 1   |  |
| 2     |         | 3549538 |   | SENSOR, OIL PRES                          | 1   |  |
| 2     |         | 3549539 |   | SENSOR, COOLANT LEVEL                     | 1   |  |
| 2     |         | 5000202 |   | SWITCH, STARTER RELAY                     | 1   |  |
| 1     | 5401277 |         |   | KIT, QSB6.7 CTRL PANEL SPARES             | 1   | Cummins Engine / Pump Module (5000086) |
| 2     |         | 5400438 |   | DISPLAY, ENGINE MONITOR                   | 1   |  |
| 2     |         | 3549480 |   | SWITCH, WORK LIGHT                        | 1   |  |
| 2     |         | 3549519 |   | PUSH BUTTON, GREEN                        | 1   |  |
| 2     |         | 3549234 |   | SWITCH, IGNITION                          | 1   |  |
| 2     |         | 3549103 |   | RED LED                                   | 1   |  |
| 2     |         | 3549118 |   | YELLOW LED                                | 1   |  |
| 2     |         | 3549117 |   | BLUE LED                                  | 1   |  |
| 2     |         | 3549482 |   | LOCK, PANEL                               | 1   |  |
| 2     |         | 3549484 |   | LIGHT, PILOT RED                          | 1   |  |
| 2     |         | 3549485 |   | SWITCH, SPST                              | 1   |  |
| 2     |         | 3549487 |   | BREAKER, 6 AMP                            | 1   |  |
| 2     |         | 3549488 |   | SWITCH, SPST SPADE CONECTOR               | 1   |  |
| 2     |         | 3549489 |   | SWITCH, SPDT MOMENTARY                    | 1   |  |
| 2     |         | 3549490 |   | SWITCH, DPDT MOMENTARY                    | 1   |  |
| 1     | 3548173 |         |   | SEAL KIT, PARKER P3 PUMP                  | 1   | Cummins Engine / Pump Module (5000086) |
| 1     | 3547283 |         |   | SEAL KIT, PVP33 ROXROTH PUMP              | 1   | Cummins Engine / Pump Module (5000086) |
| 1     | 3540345 |         |   | SEAL KIT, HYD PUMP 19CC                   | 1   | Cummins Engine / Pump Module (5000086) |



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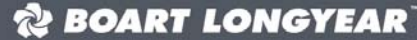
## SPARES FOR OPTIONAL EQUIPMENT - DETAIL (continued)

| Level | 1       | 2       | 3       | Description                     | QTY  | For Base Drill / Option                     |
|-------|---------|---------|---------|---------------------------------|------|---|
| 1     | 5401278 |         |         | KIT, PQ HEAD OP SPARES LF90D    | 1    | PQ Nitro Chuck <sup>TM</sup> Head (3547742) |
| 2     |         | 3541832 |         | SEAL KIT, PQ ROTATION MOTOR     | 1    |   |
| 2     |         | 3543526 |         | SEAL KIT, PQ N/CHUCK            | 1    |   |
| 3     |         |         | 3543500 | CUP SEAL, INNER URETHANE        | 1    |   |
| 3     |         |         | 3543501 | CUP SEAL, OUTER URETHANE        | 2    |   |
| 3     |         |         | 3543502 | CUP SEAL, PISTON URETHANE       | 1    |   |
| 3     |         |         | 3543503 | O'RING, PQ CHUCK SPINDLE        | 1    |   |
| 3     |         |         | 3543504 | RING, BACK-UP PQ CHUCK SPINDLE  | 1    |   |
| 3     |         |         | 3543505 | O'RING, PQ CHUCK CYLINDER       | 1    |   |
| 3     |         |         | 3543506 | RING, BACK-UP PQ CHUCK CYLINDER | 1    |   |
| 3     |         |         | 3543508 | SEAL, OIL GUIDE PIN             | 3    |   |
| 3     |         |         | 3543519 | O'RING, GAS SPRING PQ CHUCK     | 7    |   |
| 2     |         | 5000405 |         | SEAL KIT, PQ HEAD               | 1    |   |
| 3     |         |         | 3547404 | O-RING, SAE 237 BUNA-N 70D      | 1    |   |
| 3     |         |         | 306487  | SHIM, .005 THICK                | 3    |   |
| 3     |         |         | 306488  | SHIM, .007 THICK                | 3    |   |
| 3     |         |         | 306489  | SHIM, .020 THICK                | 1    |   |
| 3     |         |         | 3548734 | O-RING, SAE 276 VITON 75D       | 1    |   |
| 3     |         |         | 3548735 | O-RING, SAE 270 VITON 75D       | 1    |   |
| 3     |         |         | 306599  | SEAL, ID 5.75" OD 6.625" OIL    | 2    |   |
| 3     |         |         | 306600  | SEAL, ID 8.5" OD 9.75" OIL      | 2    |   |
| 3     |         |         | 48761   | O-RING, SAE 235 BUNA-N 70D      | 1    |   |
| 3     |         |         | 3548736 | O-RING, SAE 257 VITON 75D       | 2    |   |
| 3     |         |         | 44766   | WIRE, O.47 DIA SAFETY (TRAX6")  | 6 IN |   |
| 2     |         | 3541060 |         | KIT, FUNK TRANS OVERHAUL        | 1    |   |
| 3     |         |         | 95357   | SLEEVE, BEARING                 | 1    |   |
| 3     |         |         | 95363   | BEARING, 2ND,3RD CENTER SHFT    | 4    |   |
| 3     |         |         | 3549020 | BEARING, FUNK TRANS             | 1    |   |
| 3     |         |         | 95365   | BRG, REAR                       | 1    |   |
| 3     |         |         | 95367   | ROLLER, 34 PER SET              | 34   |   |
| 3     |         |         | 3541202 | WASHER, PQ HEAD THRUST REWORK   | 1    |   |
| 3     |         |         | 95372   | BEARING,                        | 1    |   |
| 3     |         |         | 95377   | GASKET,                         | 2    |   |
| 3     |         |         | 95378   | O-RING,                         | 4    |   |
| 3     |         |         | 3546622 | DISC, TRANSMISSION INTERLOCK    | 3    |   |
| 3     |         |         | 3546620 | SPRING, EXTRA HEAVY GREEN DIE   | 2    |   |
| 3     |         |         | 95410   | PIN, ROLL                       | 4    |   |
| 3     |         |         | 95413   | PIN, ROLL                       | 2    |   |
| 3     |         |         | 95414   | SEAL, OIL                       | 2    |   |
| 3     |         |         | 3540646 | SEAL, RING FUNK TRANS LF140     | 1    |   |
| 3     |         |         | 79792   | PILOT, BEARING TRANS            | 1    |   |
| 3     |         |         | 95418   | BEARING, BALL                   | 1    |   |
| 3     |         |         | 95419   | SPACER,                         | 1    |   |
| 3     |         |         | 95420   | BEARING, FUNK TRANSMISSION      | 1    |   |
| 3     |         |         | 95421   | SNAP RING                       | 1    |   |
| 3     |         |         | 103281  | SPACER, SHIM                    | 6    |   |
| 3     |         |         | 44766   | WIRE, O.47 DIA SAFETY (TRAX6")  | 6 IN |   |
| 2     |         | 3548230 |         | PUMP, HEAD COOLING CIRCUIT      | 1    |   |
| 2     |         | 3548232 |         | FLOW CONTROL, PRESS COMP        | 1    |   |
| 2     |         | 3549290 |         | KIT, SPLINED ADAPTOR            | 1    |   |
| 2     |         | 306494  |         | WEAR SLEEVE, OUTPUT             | 1    |   |
| 2     |         | 3546752 |         | SLEEVE, PQ SPINDLE WEAR         | 1    |   |



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The following spare kits are recommended to help maximize your drilling up-time. Please contact your Boart Longyear sales representative for more information.



## SPARES FOR OPTIONAL EQUIPMENT - DETAIL (continued)

| Level | 1       | 2       | 3     | Description                    | QTY | For Base Drill / Option              |
|-------|---------|---------|-------|--------------------------------|-----|--------------------------------------|
| 1     | 102631  |         |       | KIT, W11 SPARES                | 1   | W11 Fluid Circulation Pump (3549549) |
| 2     |         | 100625  |       | COUPLING HUB, 1" BORE          | 1   |                                      |
| 2     |         | 100627  |       | INSERT, COUPLING               | 1   |                                      |
| 2     |         | 102136  |       | COUPLING HUB, 1.5 BORE         | 1   |                                      |
| 2     |         | 19163   |       | GAUGE, PRESSURE                | 1   |                                      |
| 2     |         | 36686   |       | SPARE PARTS KIT, BEAN W1122B   | 1   |                                      |
| 3     |         |         | 79321 | SEAL, OIL                      | 6   |                                      |
| 3     |         |         | 79103 | LINER, CYL CERAMIC / STEEL     | 3   |                                      |
| 3     |         |         | 75070 | GASKET, CYL JOINT              | 3   |                                      |
| 3     |         |         | 75071 | GASKET, HEAD CYL COPPER        | 24  |                                      |
| 3     |         |         | 79324 | SEAT, W11 VALVE                | 6   |                                      |
| 3     |         |         | 26157 | BALL, 1 1/8 SS                 | 6   |                                      |
| 3     |         |         | 75069 | GASKET, VALVE COVER COPPER     | 12  |                                      |
| 3     |         |         | 79606 | PACKING, W11 CARBOX & POLY/COT | 12  |                                      |
| 3     |         |         | 75012 | NUT, PACKING                   | 3   |                                      |
| 3     |         |         | 79327 | O-RING, PACK HOLDER            | 3   |                                      |
| 1     | 5400489 |         |       | KIT, W11 BEAN PUMP LINER       | 1   | W11 Fluid Circulation Pump (3549549) |
| 2     |         | 75012   |       | NUT, PACKING                   | 3   |                                      |
| 2     |         | 75027   |       | NUT, PLUNGER                   | 3   |                                      |
| 2     |         | 79903   |       | CYLINDER                       | 3   |                                      |
| 2     |         | 75004   |       | PLUNGER CUP, L09 NIT/FAB       | 3   |                                      |
| 2     |         | 75028   |       | CUP, PLUNGER                   | 3   |                                      |
| 2     |         | 75059   |       | WASHER, PACKING                | 3   |                                      |
| 1     | 3544481 |         |       | SEAL KIT, MOTOR                | 1   | W11 Fluid Circulation Pump (3549549) |
| 1     | 5401289 |         |       | KIT, L09 PUMP MODULE SPARES    | 1   | Diesel Powered Supply Pump (3670446) |
| 2     |         | 19163   |       | GAUGE, PRESSURE                | 1   |                                      |
| 2     |         | 36685   |       | KIT, 420/520 L09 PUMP SPARES   | 1   |                                      |
| 3     |         |         | 79321 | SEAL, OIL                      | 6   |                                      |
| 3     |         |         | 79066 | CYLINDER, CERAMIC STEEL BACKED | 3   |                                      |
| 3     |         |         | 75066 | GASKET, CYL NITRILE            | 3   |                                      |
| 3     |         |         | 75068 | GASKET, CYL HEAD NITRILE       | 24  |                                      |
| 3     |         |         | 79614 | SEAT, L09 VALVE                | 6   |                                      |
| 3     |         |         | 25307 | BALL, 7/8" S/S                 | 6   |                                      |
| 3     |         |         | 75067 | GASKET, VALVE COVER NITRILE    | 12  |                                      |
| 3     |         |         | 79607 | PACKING, L09 CARBOX & POLY/COT | 12  |                                      |
| 3     |         |         | 75012 | NUT, PACKING                   | 3   |                                      |
| 3     |         |         | 79327 | O-RING, PACK HOLDER            | 3   |                                      |
| 3     |         |         | 79335 | HOLDER, 2-1/4 CYL SEAL         | 3   |                                      |
| 2     |         | 3670443 |       | BELT, DRIVE                    | 1   |                                      |
| 1     | 102633  |         |       | KIT, MUD MIXER PORTABLE SPARES | 1   | Portable Mud Mixer (102306)          |
| 2     |         | 101557  |       | CPLG, JAW 5/8 BORE             | 1   |                                      |
| 2     |         | 101494  |       | SPIDER, RUBBER                 | 1   |                                      |
| 2     |         | 101490  |       | CPLG, 1 JAW                    | 1   |                                      |
| 2     |         | 96770   |       | KIT, CARTRIDGE SEAL            | 1   |                                      |
| 2     |         | 96653   |       | KIT, PLATE SEAL                | 1   |                                      |
| 1     | 3541118 |         |       | KIT, MUD MIXER 250GAL SPARES   | 1   | Mud Tank & Mixer (3540997)           |
| 2     |         | 3548491 |       | MOTOR, HYDRAULIC MUD MIXER     | 1   |                                      |
| 2     |         | 34424   |       | HUB, WOODS MODEL 6/J           | 1   |                                      |
| 2     |         | 34425   |       | HUB, WOODS MODEL 6/J           | 1   |                                      |
| 2     |         | 34426   |       | INSERT, COUPLING               | 2   |                                      |
| 2     |         | 3540349 |       | SHAFT, ARBOR (MUD MIXER)       | 1   |                                      |
| 2     |         | 20324   |       | BEARING, THRUST                | 4   |                                      |
| 2     |         | 3540353 |       | SEAL, GREASE                   | 6   |                                      |
| 2     |         | 34949   |       | RETAINING RING,                | 4   |                                      |