

## BID SPECIFICATIONS

### L39 Loader / Landscaper Utility Tractor (Updated February 26, 2008)

#### ENGINE

|                    |  |
|--------------------|--|
| Make and Model     | Kubota, D1803  |
| Type               | Liquid Cooled, 3 cylinder diesel<br>E-TVCS indirect injection Tier II complaint diesel engine  |
| PTO hp             | 30.5 hp (22.7 kW) @ 2700 rpm   |
| Engine hp (gross)  | 39 hp (29.1 kW)  |
| Bore and Stroke    | 3.43" x 4.03" (87 mm x 102.4 mm)   |
| Displacement       | 111.4 cu in (1826 cc)  |
| Lubrication        | Forced lubrication   |
| Cooling System     | Forced flow, pressurized radiator with pre-cleaner screen                                      |
| Radiator Fan       | Radial airflow   |
| Air cleaner        | Dual element, dry paper, cyclone type, with dust cup and restriction indicator                 |
| Governor           | Ball type governor   |
| Injection Pump     | Inline fuel injection piston pump with self bleeding fuel system                               |
| Fuel Filter        | Replaceable cartridge type fuel filter   |
| Oil Filter         | Spin on oil filter cartridge   |
| Muffler            | Enclosed spark arrestor muffler  |
| Engine compartment | Fully enclosed engine compartment with full open hood  |
| Throttle           | Hand and / or foot operated.<br>Hand control positioned for loader and / or backhoe operation. |
| Fuel Shutoff       | Key switch activated engine stop mechanism   |

#### CAPACITIES

|                               |                           |
|-------------------------------|---------------------------|
| Fuel Tank                     | 10.6 U.S. gal (40 liters) |
| Cooling System                | 7.9 U.S. qts (7.5 liters) |
| Engine Oil                    | 6.0 U.S. qts (5.7 liters) |
| Transmission and Differential | 16.3 U.S. gal (62 liters) |
| Front Differential Case       | 6.9 qts. (6.5 liters)     |

#### DRIVE TRAIN

|                          |   |
|--------------------------|---|
| Front Axle               | Heavy duty, limited slip differential, 4 wheel drive  |
| Frame                    | A reinforced integral main frame absorbs twisting loads during loader and backhoe operation |
| Type                     | Bevel gear cast iron, single piece front axle with fixed tread spacing                      |
| Input shaft type         | Spline shaft power transfer from transmission, fully enclosed                               |
| Clutch                   | Dry type, single stage, 10.2" (260 mm)  |
| Glide Shift Transmission | Electronically controlled, fully synchronized, hydraulically shifted, mechanical            |
| Speed Range              | 12 forward, 8 reverse, clutchless   |
| Shuttle Shift            | Clutchless directional changes, fully synchronized  |
| Differential Lock        | Rear axle, mechanical, right heel engagement pedal  |
| Final Drive              | Helical gear, flange type   |
| Brakes                   | Multi-plate wet disc with lockable steering pedals  |

#### PTO SYSTEM

|            |   |
|------------|---|
| Type       | Independent, rear   |
|            | 540 rpm @ 2550 rpm, 1 3/8" SAE, clockwise rotation, 30.5 HP |
| PTO Shield | Flip-up type standard equipment                             |

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#### HYDRAULICS

|                                     |  |
|-------------------------------------|--|
| System                              | Open Center  |
| Pump Type                           | 2 x Gear   |
| Total Output                        | 23.4 gpm @ 2770 psi  |
| Main Pump Output                    | 11.1 gpm @ 2770 psi  |
| Remote Output (optional)            | 11.1 gpm loader or backhoe remote, block outlets                     |
| Independent Backhoe Boom Swing Pump | Standard equipment, 6.2 gpm @ 2786 psi                               |
| Filter                              | Spin-on, treated paper element                                       |
| 3-Point Hitch                       | Category I   |
| Position Control                    | Hydraulic, single lever, right side-mounted                          |
| Lift Capacity: At Lift Points       | 3858 lbs (1750 kg)   |
| 24" Behind L.P.                     | 2800 lbs (1270 kg)   |
| Steering                            | Integral, hydrostatic power steering. Easy-step tilt steering wheel. |

#### ELECTRICAL

|                               |   |
|-------------------------------|---|
| Battery (Maintenance Free)    | 12 VDC, 582 CCA   |
| Alternator                    | 12 VDC, 40 amp  |
| Engine shut-off               | Electric key shut-off   |
| Cold temperature starting aid | Automatic super glow preheat system.<br>CSA approved block heater (option)  |
| IntelliPanel™                 | Analog tachometer. Digital coolant temperature, fuel gauge, hour meter, trip meter, traveling speed, PTO speed, transmission speed range selected, service alerts. Back lighted for viewing ease day or night. Side mounted for view from loader or backhoe position. Cup holder molded into IntelliPanel™ housing. |
| Indicator lights              | Engine oil pressure, coolant temperature, battery charge, low fuel level, parking brake engaged, PTO engaged. Side mounted for view from loader or backhoe position   |
| Lights                        | Two front work lights, ROPS mounted turn signals / 4-way flashers   |

#### COOLING SYSTEM

|                |  |
|----------------|--|
| Radiator       | Heavy duty pressurized radiator with reserve tank and pre-cleaner screen |
| Air flow type  | Radial air flow with suction fan   |
| Cooling system | Centrifugal water pump   |

#### SAFETY EQUIPMENT

|                                       |   |
|---------------------------------------|---|
| ROPS / FOPS                           | Four-post ROPS certified IAW OSHA 1926.1002 / 1926.1003<br>FOPS certified IAW OSHA 1926.1003 with retractable seat belt           |
| Safety Start System                   | Standard equipment  |
| Operator Presence Controls            | Standard equipment  |
| Operator's Seat                       | Pivots in-place with walk through area. Eliminates dismount or crawling over seat when switching from loader or backhoe position. |
| Operator's Manual Storage             | Standard equipment  |
| Engine Throttle From Backhoe Position | Standard equipment  |
| Parking Brakes                        | Standard equipment  |
| Grab Handles for Entry / Exit         | Standard equipment  |
| Non-slip Entry / Exit Surfaces        | Standard equipment  |
| High Visibility Paint                 | Standard equipment  |
| Slow Moving Vehicle Sign              | Standard equipment  |
| Lights                                | Two front work lights, ROPS mounted turn signals / 4-way flashers   |

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#### DIMENSIONS

|                                    |                        |                        |
|------------------------------------|------------------------|------------------------|
| Height to top of ROPS              |                        | 94.5" (2400 mm)        |
| Length                             |                        | 19.5' (5.9 m)          |
| Width                              |                        | 72.0" (1829 mm)        |
| Wheelbase                          |                        | 68.9" (1750 mm)        |
| Turning Radius with Brake Applied  |                        | 7.2' (2.2 m)           |
| Tire Size – Standard               | Front                  | 27 x 10.50 – 15 R4 Ind |
|                                    | Rear                   | 15 – 19.5 R4 Ind       |
| Tread Width                        | Front                  | 45.9" (1165 mm)        |
|                                    | Rear                   | 51.8" (1315 mm)        |
| Weight:                            | TL with TL1765 Bucket  | 3,674 lbs (1670 kg)    |
|                                    | TLB w/o Backhoe bucket | 6,987 lbs (3170 kg)    |
| Ground Clearance (With Std. Tires) |                        | 11.8" (300 mm)         |

#### TRAVELING SPEEDS (With standard tires)

| Glideshift Transmission (GST) | Forward |      | Reverse |      |
|-------------------------------|---------|------|---------|------|
|                               | MPH     | KM/H | MPH     | KM/H |
| 1 <sup>st</sup>               | 0.8     | 1.3  | 0.8     | 1.3  |
| 2 <sup>nd</sup>               | 1.2     | 1.9  | 1.1     | 1.8  |
| 3 <sup>rd</sup>               | 1.6     | 2.6  | 1.8     | 2.9  |
| 4 <sup>th</sup>               | 1.9     | 3.1  | 2.7     | 4.4  |
| 5 <sup>th</sup>               | 2.4     | 3.8  | 4.0     | 6.5  |
| 6 <sup>th</sup>               | 2.9     | 4.6  | 5.7     | 9.2  |
| 7 <sup>th</sup>               | 3.5     | 5.6  | 9.3     | 14.9 |
| 8 <sup>th</sup>               | 4.2     | 6.8  | 13.6    | 21.9 |
| 9 <sup>th</sup>               | 5.0     | 8.0  |         |      |
| 10 <sup>th</sup>              | 6.0     | 9.6  |         |      |
| 11 <sup>th</sup>              | 9.7     | 15.6 |         |      |
| 12 <sup>th</sup>              | 14.3    | 23.0 |         |      |

#### TIRES

##### STANDARD TIRES - INDUSTRIAL

|       |                               |
|-------|-------------------------------|
| Front | 27 x 10.50 - 15 R4 Industrial |
| Rear  | 15 - 19.5 R4 Industrial       |

##### OPTIONAL TIRES - Turf

|       |                               |                             |
|-------|-------------------------------|-----------------------------|
| Front | 27 x 10.50 - 15 R4 Industrial | 27/10.50LL x 15 Galaxy Turf |
| Rear  | 16.5L - 16.1 R3 Turf Tire     | 16.5L - 16.1 R3 Turf Tire   |

#### OTHER

|                            |   |
|----------------------------|---|
| Instruction Identification | Permanently installed English instructions, diagrams and warning decals, to ensure operation and servicing with maximum safety. |
| Manuals                    | Operator's manual, Illustrated parts list, Workshop manuals (Maintenance)   |
| Note                       | The company reserves the right to change specifications without notice.   |
| Warranty                   | Basic: 12 months, No hour limit<br>Extended Powertrain: 24 months or 1500 hours   |

## BID SPECIFICATIONS

### TL1000 LOADER

|   |   |
|---|---|
| Loader Controls                           | Single lever, right side mounted, with armrest. One detent float position, power beyond circuit |
| Auto-Leveling System                      | Hydraulic, dual acting, self-leveling valve with on / off switch                                |
| Quick Coupler                             | Skid steer style quick coupler standard equipment   |
| Hydraulic Hose Routing                    | Hydraulic hoses routed through loader arms for protection and visibility.                       |
| Frame Type                                | Rigid mount, braceless loader frame for durability, greater visibility and easy service access  |
| Loader Arms                               | Sloped to match engine hood contour (visibility). Encloses hydraulic hoses (protection).        |
| Front Guard                               | Standard equipment  |
| Bucket Level Indicator                    | Standard equipment  |
| Bucket Lift Capacity                      | 2200 lbs (1100 kg)  |
| Breakout Force                            | 3560 lbs (1618 kg)  |
| Maximum Lift Height to Pivot Pin          | 114.2" (2900 mm)  |
| Clearance with Attachment Dumped          | 90.0" (2285 mm)   |
| Reach at Maximum Height                   | 20.5" (520 mm)  |
| Maximum Dump Angle                        | 45 Degrees  |
| Reach with Attachment on Ground           | 74.0" (1880 mm)   |
| Attachment Rollback Angle                 | 45 Degrees  |
| Digging Depth                             | 4.0" (100 mm)   |
| Overall Height in Carry Position          | 45.3" (1150 mm)   |
| Tower Pivot Height                        | 49.80" (1265 mm)  |
| Distance from Front Axle to Bucket Pivot  | 52.0" (1330 mm)   |
| Distance from Upright Pivot to Front Axle | 21.65" (550 mm)   |
| Raising Time to Full Height               | 3.71 seconds  |
| Attachment Rollback Time                  | 2.0 seconds   |
| Bucket Width                              | 72.0" (1829 mm)   |
| Struck Capacity                           | 12.7 cu ft (0.36 m <sup>3</sup> )   |
| Heaped Capacity                           | 15.5 cu ft (0.44 m <sup>3</sup> )   |

## BID SPECIFICATIONS

### BT1000 BACKHOE

|   |  |
|---|--|
| Quick Attach Backhoe                              | 4-point rigid mount / quick connect. Exposes Cat I 3-point hitch for implement operation. Linkage stored on machine  |
| Curved Boom                                       | Clears obstacles, improves spoil placement   |
| Enclosed Hydraulic Hoses                          | Improved visibility and durability   |
| High Performance Inching Valves                   | Greater control, productivity. Sound level reduced   |
| Dedicated Boom Swing Pump                         | Greater productivity. Operate boom swing at the same time as other backhoe functions   |
| Stabilizers                                       | Longer & stronger. Improved balance and operation on slopes and in soft soil   |
| One-Touch Boom Lock                               | Easy to reach from operator's seat   |
| Compact Valve Cover                               | Greater visibility, operator's space   |
| Seat  | Common seat for tractor, loader and backhoe operation  |
| Engine Throttle For Backhoe Operation             | Common throttle for backhoe and loader operation, located on operator's left side when in backhoe seating position   |
| Boom Swing Mechanism                              | Trunion, Twin Cylinder   |
| Digging Force Using Bucket Cylinder               | 5825 lbs (2640 kgf)  |
| Digging Force Using Dipper Stick Cylinder         | 3779 lbs (1713 kgf)  |
| Lift Capacity Boom Cylinder                       | 915 lbs (415 kg)   |
| Lift Capacity Dippers Stick Cylinder              | 2040 lbs (925 kg)  |
| Transport Height                                  | 103.6" (2700 mm)   |
| Stabilizer Spread, Transport                      | 67.2" (1717 mm)  |
| Stabilizer Spread, Operating                      | 89.3" (2268 mm)  |
| Ground Clearance                                  | 12.3" (312 mm)   |
| Overall Width                                     | 66.9" (1699 mm)  |
| Digging Depth, Maximum                            | 121.0" (3073 mm)   |
| Digging Depth, 2 Ft. Flat Bottom                  | 120.0" (3048 mm)   |
| Digging Depth, 8 Ft. Flat Bottom                  | 102.2" (2596 mm)   |
| Operating Height Fully Raised                     | 157.2" (3993 mm)   |
| Loading Height                                    | 91.3" (2319 mm)  |
| Loading Reach                                     | 58.7" (1491 mm)  |
| Reach From Pivot Point                            | 160.9" (4087 mm)   |
| Swing Pivot to Rear Axle Centerline               | 38.0" (965 mm)   |
| Bucket Rotation                                   | 180 degrees  |
| Leveling Angle                                    | 10 degrees   |
| Swing Arc   | 180 degrees  |
| Angle of Departure                                | 19.2 degrees   |
| Transport Overhang From Centerline Of Swing Pivot | 55" (1397 mm)  |
| Undercut From Centerline Of Swing Pivot           | 28.7" (729 mm)   |
| Net Weight  | 1598 lbs (725 kg)  |
| <b>OPTIONAL EQUIPMENT:</b>                        | <ul style="list-style-type: none"> <li>•Pin-on buckets - 12", 16", 18", 24", 30", 36"</li> <li>•Backhoe Stabilizer Flip - Pads</li> <li>•Remote valve kit for backhoe mounted attachments</li> <li>•200 ft. lb. class hydraulic demolition hammer</li> </ul> |