ENGINE
Model....................................... 6T-830
Cylinders .......................................... 6
Bore/Stroke.................... 4.48" x 5.32"
Displacement ..................... 504 in³
Horsepower
SAE Gross ............. 185 @ 2000 rpm
SAE Net .............. 169 @ 2000 rpm
Maximum torque
SAE Gross ..... 558 lb·ft @ 1500 rpm
SAE Net........ 531 lb·ft @ 1500 rpm

HYDRAULIC SYSTEM
Steering pump capacity..... 48.3 gpm @ 2200 rpm @ 2810 psi
Loader pump capacity ....... 30.9 gpm @ 2200 rpm @ 2200 psi
System relief pressure ....... 2810 psi
Loader control valve: .... Open-center, series parallel circuit, with positive low pressure regeneration for bucket dump.

ELECTRICAL SYSTEM
Voltage........ 24 volt, negative ground
Alternator ....................... 65 amp
Batteries (2) ....................... 12 volt

SERVICE CAPACITIES
Cooling system........................ 33.9 qt
Fuel tank............................. 70.8 gal
Engine crankcase ................. 20 qt
Crankcase and filter .......... 22 qt
Transmission ....................... 28 qt
Service (w/filter) ............. 13 qt
Total hydraulic system ...... 46 gal
Hydraulic reservoir ............ 39.8 gal
Axles (each)
   Differential: front ............ 22 qt
   rear.......................... 16 qt
   Hub (each): front ......... 6.5 qt
   rear.......................... 6 qt
   Total: front .......... 35 qt
   rear.......................... 28 qt

DRIVELINE
4 forward/3 reverse speed full powershift transmission. Electric twist-grip range selector lever on steering column. Semi-automatic shifting for upshifts and downshifts. Single stage integral torque converter with 3-to-1 stall ratio. Limited slip axles with outboard planetaries and wet disc brakes.

TIRE SIZE ADJUSTMENT FOR VERTICAL DIMENSIONS
23.5 x 25 12PR L2 .......................... 0"
23.5 x 25 12PR L3 .................... +0.5"
23.5 x 25 XHA TL ..................... +1.6"
20.5 x 25 16PR L2 ..................... -1.8"
20.5 x 25 16PR L3 ..................... -1.4"
20.5 x R25 XHA TL ................... -1.5"

OPERATOR ENVIRONMENT
Front cab glass areas and sloped rear hood offer maximum visibility to work area. Easy-to-reach servo loader controls require low effort and short throw, fingertip operation. Five loader control options are available to customize operation. An audible alarm, multi-level warning lights and liquid crystal bar graphs alert operator to individual function status. Transmission shifter features lever-controlled forward/reverse, with twist-grip range selection. Instrumentation monitors all individual machine functions. Optional analog gauges include tachometer, voltmeter, engine oil pressure, transmission oil temperature. A padded adjustable steering wheel and suspension seat increase operator comfort.

STEERING/ARTICULATION
Stop-to-stop turning ratio is 4.0 turns. Outside turning radius of tires is 18'10". 40° articulation.

DIMENSIONS
Dimensions are for spec loader with 23.5 x 25 12PR tires, ROPS cab w/heater, 5400 lb counterweight, standard equipment, 175 lb operator, full fuel and 3.50 yd³ bucket.
Height to top of cab/canopy..... 10'11"
Wheelbase........................ 125.8"
Overall height ..................... 17'7"
Hinge pin height ..................... 15.8"
Tread width .......................... 82"
Width over tires................. 106.4"

LOADER
A 23,865 lb full turn tipping load means that the 821B can easily handle material weighing 4,453 lb per cubic yard.

CYCLE TIMES Seconds
   Raise (with rated bucket load) .... 6.2
   Dump (with rated bucket load) .... 1.6
   Lower (empty, power down) ....... 4.3
   Lower (empty, float down) ........ 3.8
   Total Cycle Time ............... 11.6

STEERING (ARTICULATION)
(2).......................... 3.5"........ 17.1" .... 1.8"
CLAM ............. 5"........ 14"........... 2.5"
PERFORMANCE DATA

Spec loader is a fully serviced unit that includes all standard equipment, 23.5 x 25 12PR L2 tires, ROPS cab with heater, 5,400 lb counterweight and 175 lb operator.

### SELECTED OPTIONS

<table>
<thead>
<tr>
<th>Weight</th>
<th>Tipping Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustments</td>
<td>Adjustments</td>
</tr>
<tr>
<td><strong>SELECTED OPTIONS</strong></td>
<td><strong>lb</strong></td>
</tr>
<tr>
<td>23.5 x 25 12PR L2</td>
<td>0</td>
</tr>
<tr>
<td>23.5 x 25 12PR L3</td>
<td>+380</td>
</tr>
<tr>
<td>23.5 x 25 XHA TL</td>
<td>+860</td>
</tr>
<tr>
<td>20.5 x R25 16PR L2</td>
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<tr>
<td>20.5 x R25 16PR L3</td>
<td>-1,012</td>
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<tr>
<td>20.5 x R25 XHA TL</td>
<td>-916</td>
</tr>
<tr>
<td>20.5 x 25 XTLA TL</td>
<td>-1,296</td>
</tr>
<tr>
<td>4400 lb counterweight</td>
<td>-1,000</td>
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<tr>
<td>ILO 5400 lb counterweight</td>
<td></td>
</tr>
<tr>
<td>ROPS canopy</td>
<td>-295</td>
</tr>
</tbody>
</table>

**NOTE:** Ballast is not approved with the 5400 lb counterweight and/or 23.5 x 25 tires.

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