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Test 1242: Ford 7700 Diesel 16-Speed

Tractor Museum

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NEBRASKA TRACTOR TEST 1242 — FORD 7700 DIESEL, 16-SPEED

### POWER TAKE-OFF PERFORMANCE

<table>
<thead>
<tr>
<th>Gear</th>
<th>Power (Hp)</th>
<th>Drawbar pull (lb)</th>
<th>Speed (Mph)</th>
<th>Slip %</th>
<th>Crankshaft Speed (rpm)</th>
<th>Pull-lbs</th>
<th>Power-Hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th (4DD)</td>
<td>68.75</td>
<td>(52.2)</td>
<td>3.22</td>
<td>14.85</td>
<td>(22.3)</td>
<td>2000</td>
<td>4.66</td>
</tr>
<tr>
<td>10th (5PD)</td>
<td>60.04</td>
<td>(40.6)</td>
<td>3.18</td>
<td>13.46</td>
<td>(17.9)</td>
<td>2100</td>
<td>4.15</td>
</tr>
<tr>
<td>11th (6PD)</td>
<td>57.94</td>
<td>(39.5)</td>
<td>3.10</td>
<td>12.36</td>
<td>(15.7)</td>
<td>2200</td>
<td>3.64</td>
</tr>
<tr>
<td>12th (6PD)</td>
<td>55.28</td>
<td>(36.8)</td>
<td>3.04</td>
<td>11.38</td>
<td>(14.2)</td>
<td>2300</td>
<td>3.18</td>
</tr>
<tr>
<td>13th (7PD)</td>
<td>52.54</td>
<td>(35.0)</td>
<td>3.02</td>
<td>10.46</td>
<td>(13.0)</td>
<td>2400</td>
<td>2.74</td>
</tr>
</tbody>
</table>

### DRAWBAR PERFORMANCE

- **Power take-off 540 rpm at 1900 engine rpm**
- **Transmission and final drive lubricant Ford case oil, radiator for transmission and hydraulic oil fuel filter nylon gauze in bottom of tank and paper element Muffler vertical Cooling medium temperature control thermostat
- **LUGGING ABILITY IN RATED GEAR**
- **LUGGING ABILITY IN SELECTED GEARS**

### OTHER DATA

- **Crankshaft**
- **Clutch single dry plate oper-

### DRAWBAR PERFORMANCE

- **Max. Power in Selected Gears**
- **Rated Engine Speed**
- **Power Take-off Performance**
- **LUGGING ABILITY IN RATED GEAR**
- **Transmission and final drive lubricant Ford case oil, radiator for transmission and hydraulic oil fuel filter nylon gauze in bottom of tank and paper element Muffler vertical Cooling medium temperature control thermostat

### CHASSIS:

- **Tread with rear 36" (914 mm) to 80" (2032 mm)**
- **Wheel base 101.6" (2581 mm)**
- **Horizontal distance from center-line of rear wheels 31.1 (790 mm)**
- **Transmission selective gear fixed ratio with partial (2 range) operator controlled power shift Ad vertised speeds mph (km/h)**
- **LUGGING ABILITY IN SELECTED GEARS**
- **Rated Engine Speed**
TRACTOR SOUND LEVEL WITH CAB dB(A)

| Maximum Available Power—Two Hours | 83.5 |
| 75% of Pull at Maximum Power—Ten Hours | 84.0 |
| 50% of Pull at Maximum Power—Two Hours | 83.5 |
| 50% of Pull at Reduced Engine Speed—Two Hours | 83.5 |

REPAIRS and ADJUSTMENTS: No repairs or adjustments.

REMARKS: All test results were determined from observed data obtained in accordance with SAE and ASAE test code or official Nebraska test procedure. Temperature at injection pump return was 163°F (72.8°C). Six gears were chosen between 15% slip and 15 mph (24.1 kph).

We, the undersigned, certifies that this is a true and correct report of official Tractor Test 1242.

LOUIS L. LEVITICUS
Engineer-in-Charge

G. W. STEINBRUEGGE, Chairman
W. E. SPLINTER
K. VON BARGEN
Board of Tractor Test Engineers

The Agricultural Experiment Station
Institute of Agriculture and Natural Resources
University of Nebraska–Lincoln
H. W. Ottoson, Director

Ford 7700 Diesel, 16-Speed