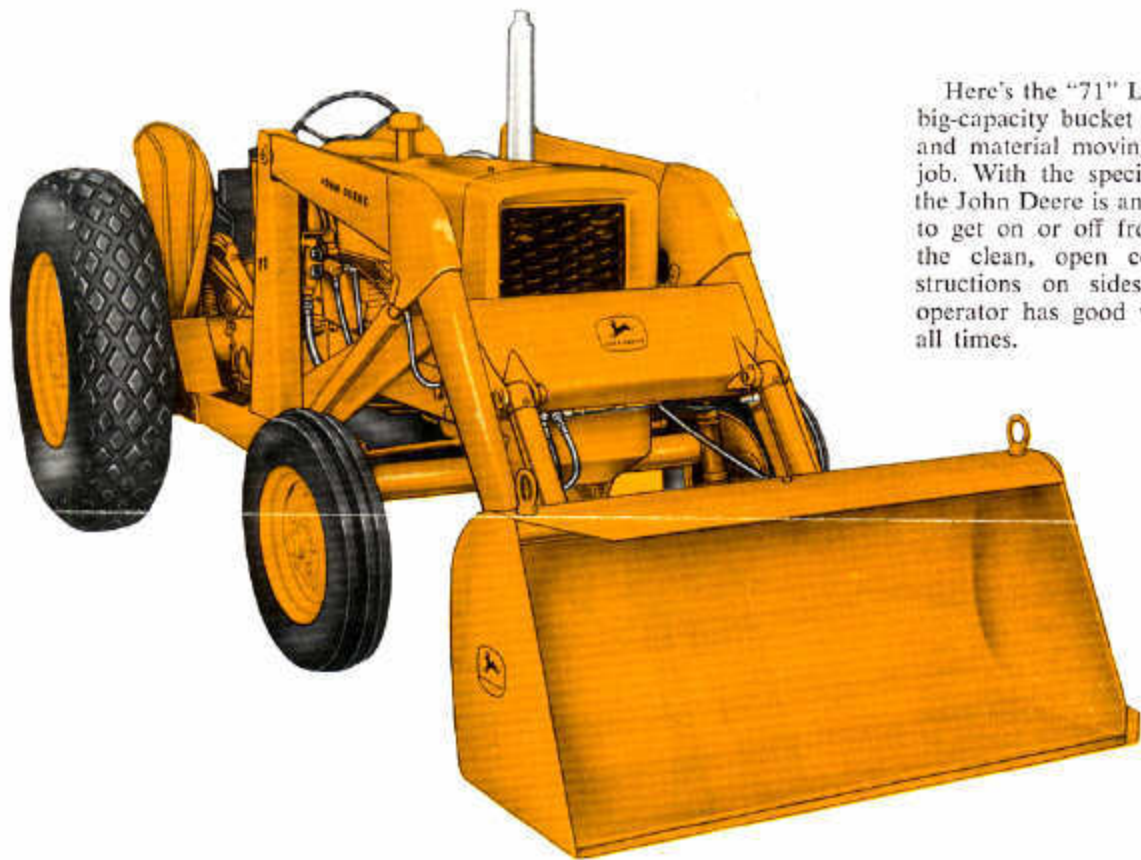




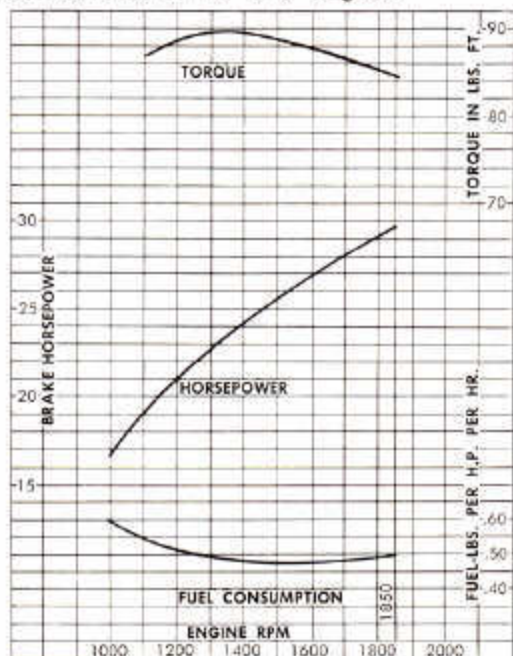
71 Loader for the 440-I Tractor



Here's the "71" Loader, with the really big-capacity bucket that speeds up earth and material moving or loading on any job. With the specially designed frame, the John Deere is an easy and safe loader to get on or off from either side. Note the clean, open construction—no obstructions on sides, top or bottom—operator has good view of his work at all times.

ENGINE PERFORMANCE

The chart below graphically shows the excellent torque, horsepower, and fuel consumption characteristics of the "440" engine.



Curves Shown Are for a Complete Tractor Belted to an Electric Dynamometer, Data Corrected to Standard Atmospheric Conditions

FEATURES

- Big Capacity Bucket
- All Controls Conveniently Located
- Comfort and Good Visibility for Operator
- Extra-Fast Operation
- Good Digging Ability
- Outstanding Reach and Positive Shake-Out Action
- Welded-In Cutting Edge
- Built-In Hydraulic Reservoir with Full-Flow Micronic-Filtered Hydraulic System
- All Main Members Are Tapered and of Box-Welded Construction
- Dual Bucket Cylinders Regular Equipment
- Outstanding Economical Engine

The "71" Loader for the John Deere 440-I Tractor is a completely new loader. It's a highly mobile and versatile work unit for contractors of all kinds, utility companies, parks and golf courses, cities and municipalities, and many other work classifications. The "71" has *maximum built-in strength*—heavy box-construction with *full-welded* seams throughout. For *maximum utility*, the "71" can be mounted in conjunction with a backhoe, or 3-point-hitch equipment such as rear-mounted blade, scraper, landscape rake, or hole digger.

QUALITY FEATURES that make the 71 a Value-Packed Loader from top to bottom

Here's low-cost, mobile power equipment for digging, carrying, and loading earth and other materials. With extra-high lift, it's easy to load big trucks. Proper weight distribution, power steering, and direction reverser make this tractor-loader exceptionally maneuverable, easy to handle, and fast. With new industrial design—tractor and loader made for each other—there's plenty of strength and power for really tough digging jobs. Best of all, this tractor-loader combination is low in first cost and just as economical to operate and maintain.

Extra-Strong Boom Assembly

Booms are rugged, tapered, box-welded 3/16-inch steel for maximum strength. A box-welded torsion member and side plates provide exceptional rigidity for heavy-duty digging and loading.

Unmatched Comfort and Ease of Handling

A really comfortable seat, well placed slanted steering wheel, and easy-view instrument panel make it easier on the operator when working long hours at a time. Convenient loader controls and hydraulic controls for rear-mounted equipment make the "71" the easiest handling loader in its price range.

Convenience and Safety for Operator

The John Deere is an easy and safe loader for the operator to get on or off. Special non-skid safety mats firmly attached to the step-on frame provide extra safety for mounting and dismounting. All hydraulic lines and hoses are well located and securely attached, out of the way. There are no hydraulic hoses or lines to interfere with or entangle the operator's feet.

Long-Lived Digging Bucket

The 60-inch bucket is heavily constructed with reinforcing of tough skid plates, tubular cross member at the top, and a formed steel angle completely welded to the lower back. A welded cutting edge provides extra strength and rigidity. Cylinder and boom pivot plates are tapered and flared for maximum strength. Two heavy, malleable rings are provided on the bucket for lifting objects by means of a chain sling.

Extra High-Grade Hydraulic Cylinders

2-1/2-inch diameter lifting cylinders and bucket control cylinders are of the double-acting type. Cylinders are honed. Piston rods are ground, polished, and chrome plated. High-grade leather cups are used for cylinder packing. These quality-built hydraulic cylinders provide real digging power, smooth operation, and exceptionally long life.

Specially Designed Loader Mounting

The loader is mounted in such a way that digging shock loads are absorbed throughout the entire unit.

Extra-Strong Grille and Pump Mounting

The husky cast grille, which carries two of the loader mounting pads, has extra strength to stand up under tough digging jobs. A special pump mounting provides easy access to the hydraulic pump if service is necessary.

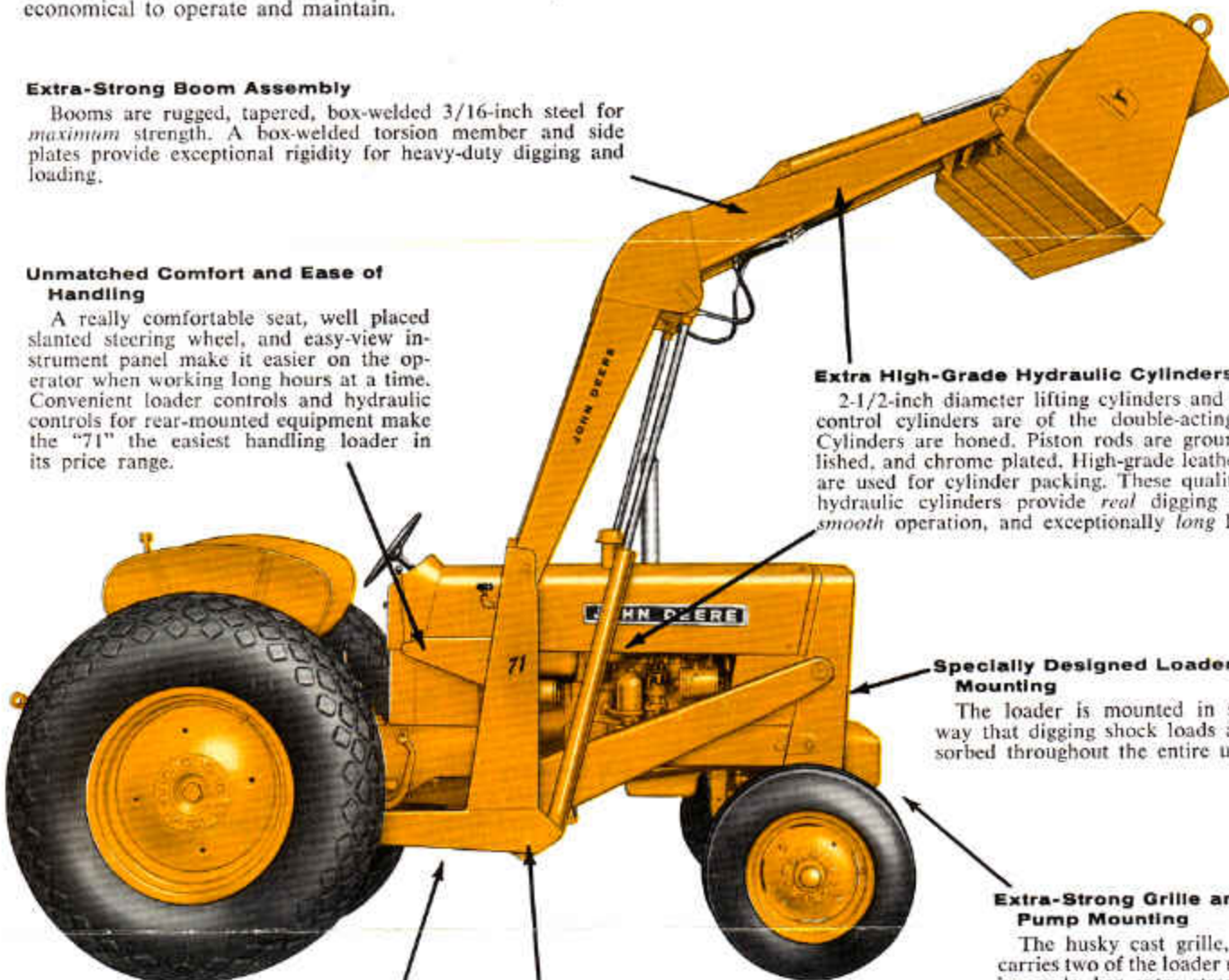
Big Work Capacity Hydraulic System

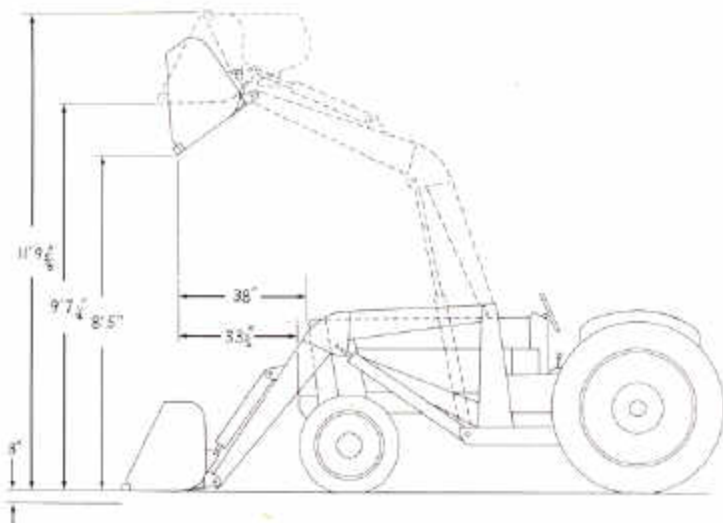
The big-capacity hydraulic system is specially designed for industrial loader use. The system is full-flow micron filtered with an element that may be cleaned and reused. No special oil is required—entire system uses 7.7 gallons of engine oil. A 5.7 gallon reservoir is built into the right-hand main frame vertical member. A high-grade double-action valve provides instant, positive control of lifting, dropping, dumping the bucket, and fast shake-out action for extra work capacity.

All fittings and tubing are plated for extra durability. High-pressure wire braid hoses are used for flexible lines.

Rugged Front-End Assembly

A tough 1/2-inch-wall-thickness tubular steel axle, high-grade tie-rod ends, high-strength spindles, and industrial-type wheels make this the strongest wheel front-end loader in its class. Heavy 1/2-inch steel tractor frame and proper weight distribution provide unmatched loader stability.





- Digging Depth Below Ground 3 in.
- Bucket Roll Back 12 degrees
- Hydraulic Cylinders:
 - Lift 2-1/2 x 44 in.
 - Bucket 2-1/2 x 24.5 in.
- Bucket Capacity:
 - Heaped 5/8 yd.
 - Struck 1/2 yd.
- Bucket Width 60 in.
- Breakaway Lift Capacity 3600 lbs.
- Full Height Lift Capacity 2000 lbs.
- Raising Time 4.0 seconds
- Dropping Time 2.5 seconds
- Bucket Tilt-Back Time 1.5 seconds
- Bucket Dump Time 2.2 seconds
- Pump Capacity 23 gpm @ 1500 psi @ 1800 Engine rpm
- Hydraulic System Capacity 7.7 gals.
- Hydraulic Reservoir Capacity .. 5.7 gals.
- Shipping Weight (loader only) Approximate 1320 lbs.

440-I TRACTOR

HORSEPOWER (Rated at Sea Level):

- Drawbar..... Approx. 27.08*
- Belt..... Approx. 29.21*

**SPEEDS (Computed at Rated Governed Engine rpm)

	4-Speed Transmission	5-Speed Transmission
First.....	1.90	1.90
Second.....	3.72	3.72
Third.....	4.97	4.97
Fourth.....	12.25	6.46
Fifth.....	12.25
Reverse.....	2.76	2.76

DIRECTION REVERSER Provides each forward speed listed above in forward or reverse travel without shifting transmission gears. (Not applicable on tractors with continuous-running power take-off.)

POWER TAKE-OFF:

- Transmission-Driven..... Internal mechanism regular, stub shaft extra—560 rpm. Conforms to ASAE-SAE standards.
- Front..... Crankshaft pulley has 4 tapped holes and pilot to accommodate drive coupling.
- High Speed Drive..... Splined coupling located inside transmission, 1850 rpm.
- Belt Pulley..... Extra equipment. Diameter 9 in.; face 6 in.; revolutions per minute, 1270; belt speed (feet per minute), 3000.

ENGINE

- Four Stroke Cycle, Valve-in-Head, Design:
- Number of Cylinders..... 2
- Bore and Stroke, Inches..... 4 1/2 x 4
- Piston Displacement..... 113
- Rated Governed Speed, rpm..... 1850
- Piston Speed, Ft. per Min..... 1233
- Maximum Torque, Lbs. Ft..... 90
- RPM at Maximum Torque..... 1300
- N.A.C.C. or A.M.A. Horsepower Rated for Tax Purpose..... 14.45
- Lubrication..... Pressure system with by-pass type filter
- Crankshaft..... Induction-hardened, counterbalanced
- Main and Connecting Rod Bearings..... Steel-backed, babbit-lined, removable
- Number of Main Bearings..... 2
- Diameter, Main Bearings, In..... 2.398
- Length, Main Bearings, In. (Total)..... 4.523
- Cooling... Pressurized; with water pump, thermostat, and fixed by-pass Governor..... John Deere design—enclosed flyball type
- Carburetor..... Natural-draft type with load and idle adjustment
- Ignition..... Battery ignition with automatic spark advance
- Air Cleaner..... Oil-wash type
- Starting..... 6 volt electric starting motor

FINAL DRIVE Induction hardened spur-gear type. Gears mounted on anti-friction type bearings.
 Gear reduction ratio in first gear—(engine to axle)..... 14.45 to 1
 Gear reduction ratio in high gear—(engine to axle)..... 22.5 to 1

BRAKES Self-energizing disk type foot-operated individually or simultaneously.

RECOMMENDED ON THE TRACTOR:

*Power steering; direction reverser; 7:50 x 16—6-ply front tires; at least 500 lbs. extra weight on each rear wheel (wheel weights, 90 per cent calcium chloride and water, or both).

TURNING RADIUS (with Brakes)..... 10 ft.

TIRES

- Front..... 6:00 x 16—4-ply
6:00 x 16—6-ply
7:50 x 16—4-ply
- Rear..... 12 x 26—4-ply
12 x 28—4-ply
13 x 26—4-ply
13 x 26—6-ply

WHEEL TREADS

- Front..... 56 inches, fixed tread
- Rear..... 60 inches

TRACTOR DIMENSIONS: (with 6:00 x 16 front, 13 x 26 rear tires):

- Height to Top of Grille..... 54 1/2 in.
- Over-All Height..... 71 1/2 in.
- Over-All Width, Min..... 75 in.
- Over-All Length—(With 3-Point Hitch)..... 136 3/4 in.
- (Tire to Tire Edges)..... 126 in.
- Wheelbase..... 85 in.
- Clearance (Front Axle)..... 17 1/2 in.

CAPACITIES (U. S. Standard Measures):

- Cooling System, Gal..... 2 1/2
- Fuel Tank, Gal..... 10 1/2
- Engine Lubrication, Qts. (Including Filter)..... 5
- Transmission Case, Gal..... 2.4
- Final Drive Cases (Each), Qts..... 3.5

REGULAR EQUIPMENT

Oil pressure and water temperature gauges; distributor-type ignition with key ignition switch; fuel and oil filters; air cleaner, electric starter, battery, and generator; coil-spring cushioned adjustable seat; cushioned adjustable back rest; provision for ASAE-SAE standard power take-off; fenders.

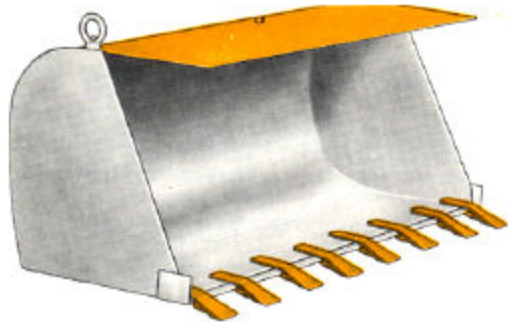
EXTRA EQUIPMENT

Power steering; direction reverser; rear wheel weights; deluxe adjustable seat; electric lighting with equipment warning light; plug-in socket, equipment warning light, and instrument panel light; speed-hour or hour meter; cigarette lighter; 5-speed transmission; standard power take-off stub shaft; belt pulley; hydraulic power, 3-point hitch with Load-and-Depth Control; swinging drawbar; equipment hitch bar; air cleaner pre-cleaner; seat side cushions.

SHIPPING WEIGHT Approx. 3800 lbs.

*Taken from Nebraska tests of 420-W Tractor, which has same engine and ground speeds. (Sea level calculated; maximum h.p. based on 60° F. and 29.92 in. Hg.)

**Speeds shown here are computed at rated governed engine rpm of 1850 under load; transport speeds and speeds with light load will be higher.



Spill Sheet

A spill sheet which attaches to the upper bucket edge is available as extra equipment. This attachment permits faster loading of loose materials with less spillage.

Steel Digging Teeth

Steel digging teeth have ductile centers and are heat treated for tough digging conditions. These teeth can be bolted on or welded in place.

ATTACHMENTS

Lifting Crane

A lifting crane that is easily and quickly attached to the bucket lifting booms is available as optional equipment. The bucket dumping cylinders are connected to and used to control movement of the crane. Two positions are possible to change length of crane. Fully extended the crane will lift 2000 pounds to 15 feet at the clevis.



Enjoy greater profits—investigate the wide selection of John Deere and allied equipment for varied industrial uses.

The NEW Money-Making Combination



**JOHN DEERE 71 LOADER on the
440-I Wheel-Type Tractor**