

# the **NEW** JOHN DEERE 400 **CHEVRON** **FLIGHT** **ELEVATING SCRAPER**

**WITH JOHN DEERE 840 DIESEL TRACTOR**

Now . . . after three years of design and testing . . . the new Chevron-Flight "400" is ready for you. Priced to fit your budget—as well as your jobs—this one-man combination tractor and self-loading scraper gives you everything you need to handle intermediate-range earthmoving jobs that are too great for a bulldozer or impractical for large, expensive machines. Building roads, streets, shoulders,

dams, ponds, stripping overburden, handling loose, sandy soils, and on land-forming work of all kinds, it quickly proves its profit-making superiority. If tractor is needed for drawbar work, such as pulling compactors, scraper can be uncoupled within 20 minutes time.

**Now...for YOU...fast, profitable  
earthmoving  
on a wide variety of jobs**

Extra strength and stamina . . . good balance of weight and power . . . ease of handling . . . outstanding fuel economy . . . and ease of servicing—all are yours in the 840 Diesel and 400 Scraper.

If you plan to invest soon in an earthmoving unit of *any size*, we invite you to check the mechanical features and specifications of the "400" and the time-proved "840" Diesel Tractor as shown on the following pages. Then make a date with your nearby John Deere dealer. Remember, as with all John Deere equipment, the liberal John Deere Credit Plan permits you to "earn as you pay." It's your opportunity to win more bids, to cash in on the ever-growing construction market.

Easy does it—no expensive "pusher" is required when you're moving earth with this latest self-loading scraper and its high-torque Diesel companion.

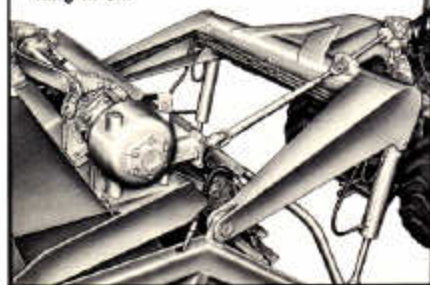


THE **840** DIESEL and the new  
**CHEVRON**  **FLIGHT 400**  
**SELF-LOADING SCRAPER**

This low-cost, "LOAD-A-LIFE" scraper has extra strength and balance.



Detail views show elevator, rugged draft frame, lift cylinders and drive. Elevator drive gears fully enclosed, running in oil.



2. Two lights in each fender, adjustable independently for best visibility. Tractor also has lights at rear for night loading. Tail light regular on scraper.

1. Power steering for fast, easy maneuverability. Oscillating front axle increases tractor stability and operator comfort over rough ground.

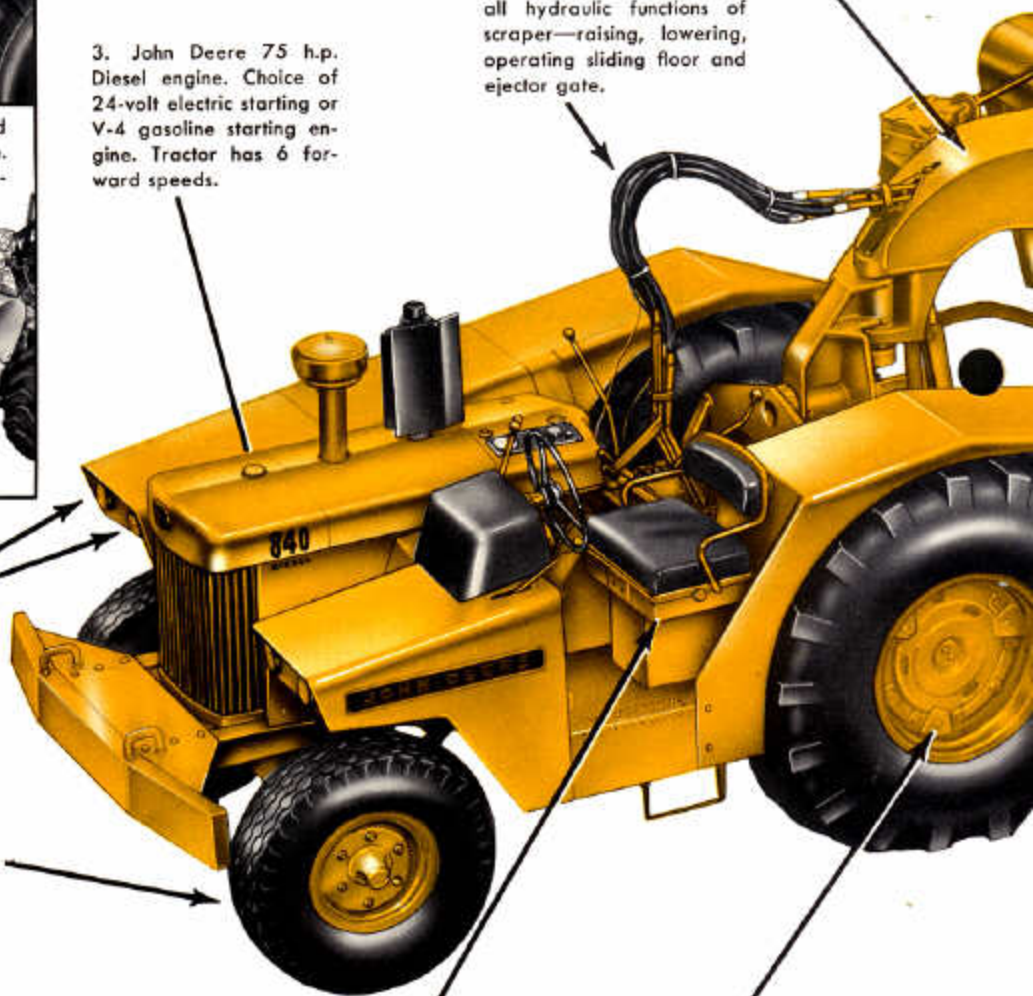
4. New 1000-rpm PTO drive delivers positive power to operate scraper elevator. No belts—servicing is reduced to a minimum. Telescoping, 3-section, vertical drive shaft extends or retracts in rough terrain. (Not visible.)

3. John Deere 75 h.p. Diesel engine. Choice of 24-volt electric starting or V-4 gasoline starting engine. Tractor has 6 forward speeds.

6. "Gooseneck" and draft frame are built extra heavy to absorb shocks. Yoke-connecting point for scraper and tractor is in front of and below tractor drive axle, providing excellent stability.

5. Hydraulic lines. Tractor's "live" system operates all hydraulic functions of scraper—raising, lowering, operating sliding floor and ejector gate.

7. Precision gears, running in oil, operate scraper elevator. Power is transmitted from PTO through a horizontal shaft and universal joint connection.



21. From the comfortable float-ride seat, operator has easy access to all controls, good view of work and of instrument panel. Plenty of room to get in and out.

20. Internal-expanding power brakes operate independently or together. Hydraulically actuated through convenient pedals.

19. Heavy-duty scraper attachment. Scraper can be changed in minutes so tractor can be used for other jobs. (Not visible.)

# "MINUTE" earthmoving combination brings you ... ease of handling ... all-around economy

spiral bevel  
oil, drive ele-  
transmitted by  
aning tractor  
vertical and a  
and 5 univer-  
sions.

8. PTO-driven, 6-sprocket  
elevator loads and pulverizes  
all types of material. "Chev-  
ron" flight is new concept—  
each flight is one-piece, high-  
carbon steel, resilient, smooth-  
running, self-cleaning.

9. Heavy-duty, 7-1/2 cu.  
yd. bowl has sidewalls of  
3/16-inch, reinforced plate  
steel. Floor is double-walled  
1/4-inch plate steel with slide  
rails of 1/2-inch, high-carbon  
steel.

10. Hydraulically operated  
ejector gate moves forward  
automatically to complete  
ejection cycle as sliding floor  
reaches rearmost position.  
Positively dumps complete  
load.

11. Channel-type rear  
frame is extra strong—can be  
used as pusher plate should  
unit become mired. Heavy  
spill shield protects hydraulic  
cylinders.

12. Grader tires, 18.00  
x 26, 10-ply, are inter-  
changeable with tractor  
rear tires. Provide good  
traction and flotation.

13. Scraper axle—4-  
inch diameter, one-piece,  
solid steel.

15. Retracting floor op-  
erates hydraulically, in  
parallel with ejector.

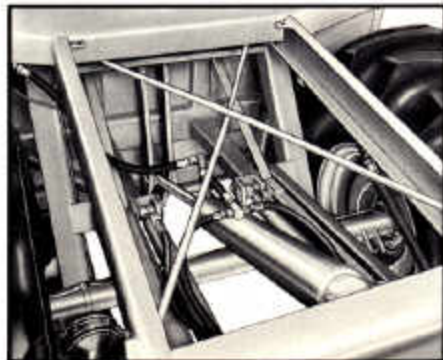
16. Retracting floor roll-  
ers are mounted on out-  
side of scraper and are  
fully enclosed. Adjustable  
skid shoes regular.

17. Lift cylinders for bowl are  
5-inch diameter with 2-inch,  
solid, heat-treated, chrome-plated  
rods. Provide surplus of power  
for raising and lowering.

18. 3-piece reversible and replace-  
able blade cuts 90 inches. Made of  
high-carbon 5/8-inch steel. Adjustable  
to provide 4-inch lower blade position.

drawbar standard equip-  
ment can be disconnected within 20  
minutes. Drawbar is freed for pulling com-  
bination drawn equipment. (Drawbar

14. Electric brakes, con-  
trolled by hand lever in  
operator's compartment.  
Easily adjusted and serv-  
iced.



Protective spill shield removed to show sliding floor cylinder, ejector gate cylinders, and rugged channel-type rear frame.



Detail of scraper-tractor mounting and 1000 rpm vertical PTO drive. No belts to wear out.

# JOHN DEERE 840 DIESEL - 400 SCRAPER COMBINATION

## SPECIFICATIONS

(Specifications and design subject to change without notice)

### 840 DIESEL

#### HORSEPOWER

Engine	75.60
Drawbar	69.66*
*Sea level (calculated); maximum h.p. based on 60°F. and 29.92 in. Hg. (Nebraska Test No. 632)	

#### ENGINE (Diesel)

Two-cylinder, cast-in-block, valves-in-head.	
Bore and stroke	6-1/8 in. x 8 in.
Compression ratio	16 to 1
Displacement	471-1/2 cu. in.
Engine speed	1270 rpm

#### CAPACITIES (U. S. Measurements)

Fuel tank	30-1/2 gals.
Crankcase	3-1/2 gals.
Transmission	3-1/4 gals.
Cooling system	8 gals.

#### SPEEDS

(18-26 tires)

**RIMPULL** (Based on max. torque  
398 lbs. ft.)

1st	1-3/4 mph	17,000 max. lbs.
2nd	3-1/4 mph	8,060 max. lbs.
3rd	4-1/4 mph	6,350 max. lbs.
4th	5 mph	5,440 max. lbs.
5th	6-1/4 mph	4,265 max. lbs.
6th	11-1/4 mph	2,365 max. lbs.
Reverse	2-1/2 mph	

#### TRANSMISSION

Six forward speeds and one reverse	
Gears	Selective type, straight spur-cut gears, forged and heat-treated
Bearings	Shafts run on 6 tapered-roller bearings

#### CLUTCH

Hand-operated; eight 9-1/4 in. dry disks

#### POWER TAKE-OFF

Shaft rpm. 1000

#### BRAKES

Tractor, hydraulic-activated; scraper, electric

#### TIRES

Front	8.25 x 20, 10-ply 11.00 x 16, 8-ply
Rear	18-26 10-ply grader on 20-in. rims

#### WHEEL TREADS

Front	62-1/4 in.
Rear	67-1/4 in. with 18-26 tires

#### DIMENSIONS

Wheelbase	85-1/4 in.
Over-all height (without muffler extension)	81 in.
Height to top of steering wheel	72 in.
Over-all length—tractor	12 ft. 9 in.
Over-all length—tractor and scraper (Bowl down)	32 ft. 4-1/2 in.
(Bowl up)	31 ft. 6-1/2 in.
Turning width—tractor and scraper (for non-stop 180° turn)	32 ft. 8 in.

#### SHIPPING WEIGHT

Tractor and scraper	Approx. 24,250 lbs.**
Scraper	Approx. 13,000 lbs.
Tractor	Approx. 11,250 lbs.**

\*\*Weights are for tractors dry, with front bumper ballast, and with wheel equipment as shown above.

### 400 SCRAPER

CAPACITY 7-1/2 cu. yds.

#### DIMENSIONS

Width	Max: 8 ft.
Length (from swivel to rear bumper)	22 ft. 7 in.
Height (Bowl down)	7 ft. 6 in.
(Bowl up)	8 ft. 4 in.

#### TURNING WIDTH

For non-stop 180° turn. 32 ft. 8 in.

#### WEIGHT DISTRIBUTION, LBS.

	EMPTY	LOADED
Front axle	5,190	5,530
Rear axle	10,900	17,720
Scraper axle	8,160	21,000

FRAME Reinforced steel plate

BOTTOM PLATE Boxed reinforced

GOOSENECK HOOKUP

AXLE 4-in. solid, one-piece

TIRES 18-26, 10-ply grader, interchangeable with rear tractor tires

BLADE 3 sections, reversible and replaceable. 5/8 in. high-carbon steel. Cutting width: 90 in. Replaceable side cutters.

ELEVATOR PTO driven; 1000 rpm

Chevron flights

#### EJECTION

Positive hydraulic control

Sliding floor: boxed, reinforced—steel rollers, sealed bearings

Ejection tail gate: reinforced steel plate

#### HYDRAULICS

Cylinders:

2-bowl, 5-in.

1-sliding floor control, 4-1/2 in.

2-ejector, 2-1/2 in.

Piston rods: ground, polished, hard chromed

Neoprene seals

BRAKES Electrically actuated, 16-1/2 in. x 5 in. Total brake area: 414 sq. in.