

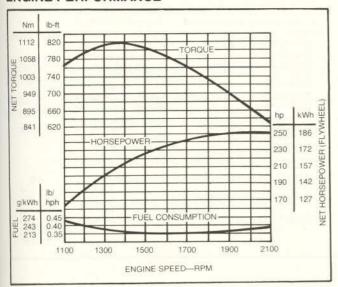
8 ft. (2.44 m)

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# 862 SCRAPER



#### **ENGINE PERFORMANCE**



#### **FEATURES**

250 SAE net hp (186 kW)

16 cu. yd. (12.23 m³) heaped capacity

Self-loading

Positive hydraulic full-load ejection

Hydrostatic variable-speed, reversible elevator

Closed-center hydraulic system with variable-displacement piston pump

Hydraulic differential lock

Fully automatic 6-speed Power Shift transmission w/automatic torque converter lockup

Position-responsive power steering

Power brakes

Roll-over protective structure (ROPS) w/cab or canopy and seat belt

Vandal protection

Designed for quietness

To per

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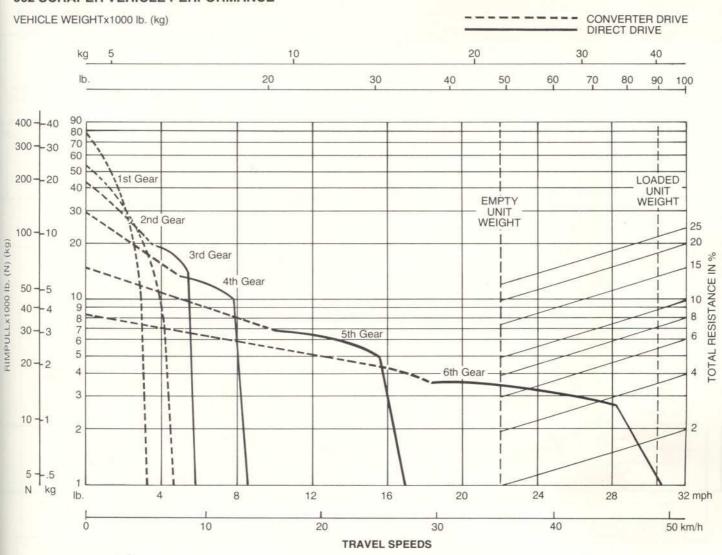
## 862 SCRAPER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are based on a unit equipped with 26.5-25, 24-ply-rating tires, ROPS canopy,	ions are in accordance with ICED and SAE Standards. Except where otherwise noted, these full fuel tank, 175 lb. (79 kg) operator, and all standard equipment.)		
Capacity (SAE heaped):         Volume	FiltrationAll systems are protected by replaceable filters.  Main hydraulic system		
Power (@ 2100 engine rpm):         SAE         DIN           Gross	Transmission 10-micron filters Engine 25-micron filters Differential 10-micron filters		
Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator, and muffler. Gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85°F. lemperature and DIN 70 020 standard conditions of 760 mm Hg barometer (sea level) and 20°C temperature. Engine maintains rated horsepower up to 7500 feet (2286 m) altitude.	Hydraulic Cylinders:         Bore         Stroke           Lift (2)         5 in. (127 mm)         20 in. (508 mm)           Sliding floor (1)         5.25 in. (133 mm)         38.8 in. (986 mm)           Ejector gate (2)         3 in. (76 mm)         49.0 in. (1244 mm)           Steering (2)         4 in. (102 mm)         25.9 in. (658 mm)           Piston rods         Ground, heat-treated, chrome-plated, polished		
Engine: John Deere turbocharged and intercooled diesel, 6-cylinder, 4-stroke cycle  Bore and stroke	Lift and steering cylinders2 in. (51 mm) dia. Sliding floor cylinder2.5 in. (64 mm) dia. Ejector gate cylinders1.75 in. (44 mm) dia.		
Piston displacement	Elevator		
NACC or AMA (U.S. Tax) horsepower	Spacing of flights         12.52 in. (318 mm)           Width of flights         6 ft. 6 in. (1.98 m)           Speed (@ 2100 engine rpm)         .0-240 fpm (73 m/min)           Length (top to bottom)         .12 ft. (3.66 mm)		
Aspirated air cleaner w/safety element and restriction indicator	<b>Bowl</b>		
Batteries (two 12 volt)	Cutting Edge 8 ft. 9.9 in. (2.69 m) wide; 3 sections, reversible and replaceable, high-carbon steel. Each section is adjustable verti-		
Two-phase single stage with 2.84 to 1 multiplication ratio, free-wheeling stator lockup clutch and automatic control.	cally 2 in. (51 mm).  Center section		
Transmission:  Planetary Power Shift, 6 forward, 1 reverse speeds. Microprocessor controlled, fully automatic shift with modulation.  Gear pump	Tires: 26.5-25, steel-cord radials 26.5-25, 24-ply-rating, E2 26.5-29, 26-ply-rating, E3		
transmission lubrication, torque converter charge and transmission shift actuation.	Capacities U.S. Imp. Liters Cooling system		
Differential LockFoot-operated, hydraulically actuated	Fuel tank		
Drive Axle Differential drive; over-all ratio 22.22 to 1; planetary final drives with 4.4 gpm (0.28 L/s) pump for axle lubrication and differential lock actuation  Perken: Hydraulic power actuated An accumulator provides says	Engine lubrication, including filter       .31 qt.       25.8 qt.       29.3         Transmission case and filter       .19 gal.       15.8 gal.       71.9         Differential case       .7.5 gal.       6.2 gal.       28.4         Hydraulic reservoir       .24 gal.       20.0 gal.       90.8         Elevator gear case       .8 qt.       6.7 qt.       7.6		
Brakes: Hydraulic, power actuated. An accumulator provides several brake applications after engine is stopped.	Additional Standard Equipment:		
Tractor	Cigaret lighter Hitch, steering and rear frame Deluxe suspension seat central lube systems Ether starting aid Horn		
Power Steering: Position-responsive	Fenders (tractor and scraper) Horizontal muffler Gauges: Indicator warning lights:		
Articulated frame hydraulically actuated by dual cylinders.  Turning circle (180 deg. turn)	Voltmeter Brake pressure Engine oil pressure Hydraulic filter Engine water temperature Parking brake light and buzzer Fuel Transmission filter		
Tractor Oscillation (total)	Hourmeter Lights (head and work)		
Hydraulic Systems: Main tractor system: Closed-center System pressure2350 psi (16 203 kPa) (165.2 kg/cm²) Operates steering, brakes, and all scraper functions except	Hydrostatic charge pressure Speedometer Tachometer Transmission lube pressure Transmission oil pressure		
elevator drive.  Main pumpVariable displacement, constant pressure; delivers 63 gpm (3.97 L/s) @ 2100 engine rpm. Main charge pump	Transmission oil temperature Elevator charge pressure		
delivers 20.3 gpm (1.28 L/s) @ 2100 engine rpm.  Elevator system	Weight Distribution:         lb.         kg           Empty: Drive axle         32,050         14 538           Scraper axle         17,139         7774           Total         49,189         22 312		
System pressure5000 psi (34 475 kPa) (351 kg/cm²)	Loaded: Drive axle		

## Special Equipment:

Air conditioner
Cab panels
Fender extensions and mud flaps
for scraper wheels
Heater
Teeth for cutting edge

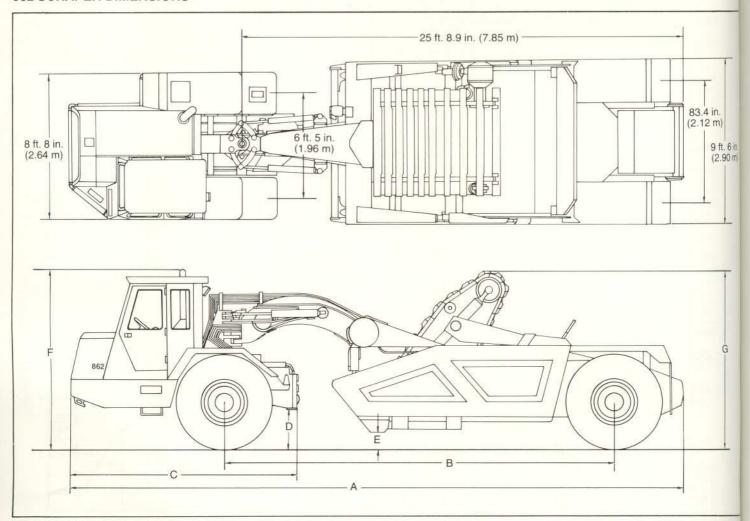
## 862 SCRAPER VEHICLE PERFORMANCE\*



#### **GRADABILITY — RIMPULL**

To calculate gradability performance: Read down from vehicle weight to the percent of total resistance. (Total resistance equals actual percent of grade plus one percent of each 20 lb./ton of rolling resistance.) From this weight-resistance point, read straight across to the curve with the highest obtainable speed range, then down to maximum speed. Usable rimpull is affected by traction available and weight on drive wheels.

\*Ambient temperature, length of haul and weight of material moved could affect the tire ton-mph capacity. To prevent premature tire failure under adverse working conditions, consult the tire manufacturer.



	BOWL AT GROUND LEVEL	BOWL UP	BOWL LEVEL
A	36 ft. 4 in.	35 ft. 9 in.	36 ft. 2 in.
	(11.07 m)	(10.90 m)	(11.02 m)
В	22 ft. 11 in.	22 ft. 3 in.	22 ft. 9 in.
	(6.99 m)	(6.78 m)	(6.93 m)
С	14 ft. 3 in.	14 ft. 3 in.	14 ft. 3 in.
	(4.34 m)	(4.34 m)	(4.34 m)
D	19.5 in.	19.5 in.	19.5 in.
(axle clearance)	(495 mm)	(495 mm)	(495 mm)
Е		19 in. (483 mm) w/o teeth 16 in. (406 mm) w/teeth	7 in. (178 mm) w/o teeth 4 in. (102 mm) w/teeth
F	10 ft. 1 in.	9 ft. 11 in.	9 ft. 11.5 in.
	(3.07 m)	(3.02 m)	(3.03 m)
G	10 ft. 3 in.	10 ft. 11.4 in.	10 ft. 5 in.
	(3.12 m)	(3.34 m)	(3.18 m)