73 SAE NET HORSEPOWER

JOHN DEERE

LE

LOADERS

210LE

ALL-WHEEL-DRIVE

Not your "garden-variety" loader tractor

If you think the 210LE is just another tractor with yellow paint, think again. With heavy-duty unitized mainframe, integral three-point hitch, and industrial-strength loader, the 210LE is all business. Its high-torque John Deere diesel, four-speed torque-converter transmission, and mechanical front-wheel drive deliver plenty of pull with a box scraper. And more than enough muscle for powering through piles and heaping the bucket. Powerful, durable, affordable — that's the 210LE.

> 73 SAE net hp; 80 SAE net hp with turbocharger
> 1–1.25 cu.-yd. bucket
> 5,280-lb. lift capacity
> 7,900-lb. breakout force
> 9,130-lb. operating weight

84-inch Cameco box scraper employs a high-volume back, double-beveled reversible cutting edge, and high-lift scarifier with heat-treated replaceable teeth.

Maximum productivity end to end

The 210LE is widely regarded as the best grading tractor available. And for good reason. Its responsive, heavy-duty integral three-point hitch and rugged multi-position box scraper make the fine art of grading easy to master. But when the work takes you outside the box, the 210LE is up to those tasks, too. Its industrial-strength loader with your choice of heavy-duty general-purpose or multipurpose bucket puts a variety of work within reach. Demo one and find out for yourself why the versatile 210LE is the most popular loader tractor in its class.

Integral category II three-point hitch gives hydraulic control of lift and lower with down-pressure and float, tilt, pitch, and auxiliary functions. Lower-link sway blocks and single tilt cylinder are standard; dual cylinders, fixed drawbar, and 540-rpm PTO drive are available.

Curved knee provides exceptional reach, easily dumping to the center of most trucks for fast loading cycles.

Tight torque converter match, high torque reserve, and optimum lift-to-crowd match make the 210LE a very capable loading tractor.

Choose either a 1-cu. -yd. general-purpose or 1.12-cu. -yd. multipurpose bucket. The “four-in-one” version works well for a wide variety of tasks such as spreading gravel, grading, carrying cumbersome objects, or loading trucks.

Unlike the “throwaway” engines employed by others, the 210LE utilizes the same heavy-duty wet-sleeve 4.5-L John diesels found in our highly reliable backhoes.

Comes equipped, not stripped

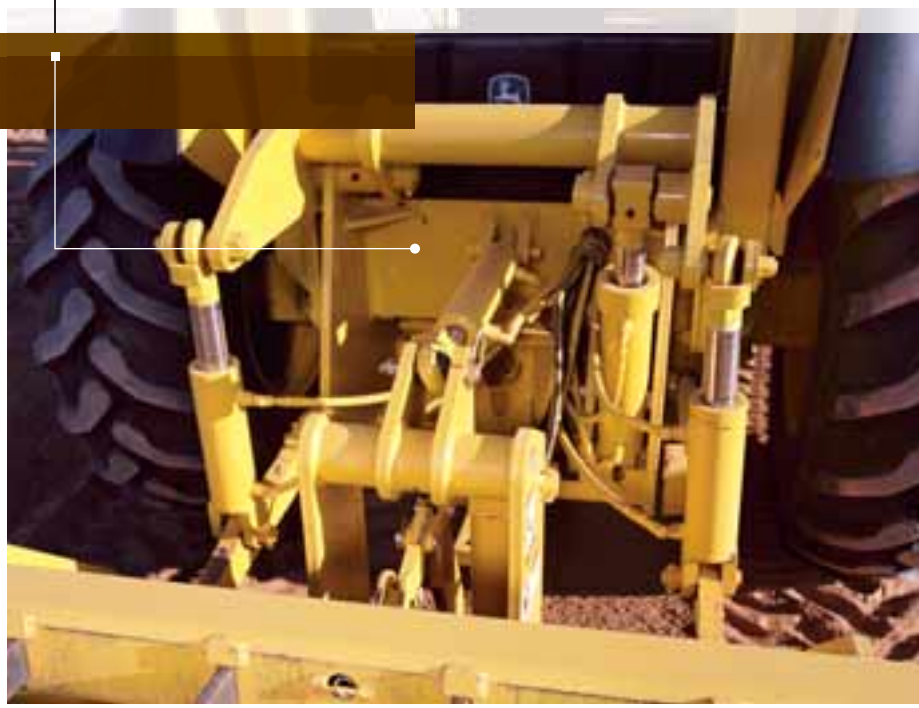
No, the LE in this tractor’s model number doesn’t stand for “lots of extras”. But it should. Because this durable Deere utilizes several of the same drivetrain components and structures found in our highly reliable 310G Backhoe.

It’s no wonder the 210LE has carved out such a loyal following among asphalt contractors, site developers, and rental yards. And why it returns such outstanding value at trade-in time. When you know how it’s built, you’ll opt for the 210LE.

One-piece high-strength unitized mainframe is purpose-built to provide a solid working base for grading applications. Isolates components from shock-load stress, too.

Mechanical front-wheel drive delivers extra traction for increased productivity with heavy loads or on marginal jobsites.

Nothing light-duty here. This is one category II three-point hitch that can endure the rigors of everyday use.



Inboard-mounted multiple-disc brakes are sealed in a cooling oil bath for long, trouble-free life.

Box-constructed high-tensile steel loader arms provide superior strength and durability.

FNR neutral safety switch and automatic park brake help prevent accidental machine movement. Doesn't allow park-brake drive through, either.

Choose the four-speed transmission that's right for you — a synchroshift with hydraulic reverser is standard; powershift is available. Either way, you get smooth, no-clutch fingertip direction changes for fast work cycles.

Electronic control unit lets service technicians easily retrieve vital operating information and helps diagnose problems more quickly.

Easy to operate

Mechanical front-wheel drive and a differential lock that engages on-the-go give extra traction in poor underfoot conditions or for moving heavy loads. Limited-slip MFWD is optional.

Low-profile sloped hood, compact forward console, loader arms that angle outward, and two-post ROPS allow unobstructed visibility. Suspension seat swivels 15 degrees to the right for extra visibility of rear tools.

Transmission disconnect, automatic return-to-dig, bucket self-leveling, and float make an operator more efficient and help speed repetitive loading cycles.

Three-point hitch controls are conveniently positioned, and hydraulic response is consistent and quick.

Wet-disc brakes are fully modulated and self-adjusting so they require little effort or maintenance.

Periodic maintenance chart helps ensure that nothing gets overlooked.

Expect low daily owning and operating costs with the 210LE. Its fuel-efficient Deere diesel runs 500 hours between oil changes. Vertical spin-on filters simplify fluid changes. Poly-V belt needs no adjustment.

Two-position tilt hood provides quick ground-level access to engine and transmission dipsticks, engine oil fill, fuel filter, and coolant reservoir.

Easy to maintain

Specifications

Engine — 210LE

Type	John Deere 4045D, naturally aspirated standard / John Deere 4045T, turbocharged optional; meets EPA and CARB emission non-road regulations
Rated power @ 2,200 rpm	78 SAE gross hp (58.2 kW) / 73 SAE net hp (54.4 kW)
John Deere 4045T with turbocharger	84.5 SAE gross hp (63 kW) / 80 SAE net hp (60 kW)
Cylinders	4
Displacement	276 cu. in. (4.524 L)
Fuel consumption, typical	1.1 to 1.9 gal./hr. (4.2 to 7.2 L/h)
Torque rise, net	26 percent
Maximum net torque	220 lb.-ft. (298 Nm)
Lubrication	pressure system with spin-on filter and cooler
Air cleaner	dual stage dry type with safety element, evacuator valve, and prescreener
Electrical system	12 volt with 65-amp alternator
Cooling fan	sucker type, 1:1 speed ratio

Transmission

Four-speed, helical-cut gear, collar-shift transmission synchronized in all gears with hydraulic reverser (optional full-power-shifted transmission)

Torque converter, single stage, dual phase with 2.63:1

stall ratio	11 in. (280 mm) diameter

Travel speeds (maximum) with 16.9-24, 8 PR R4 rear and 12-16.5, 8 PR NHS front tires

	Forward	*Reverse*
Gear 1	3.6 mph (5.8 km/h)	4.0 mph (6.4 km/h)
Powershift	3.6 mph (5.8 km/h)	4.0 mph (6.4 km/h)
Gear 2	5.9 mph (9.5 km/h)	6.6 mph (10.6 km/h)
Powershift	5.8 mph (9.3 km/h)	6.7 mph (10.8 km/h)
Gear 3	13.9 mph (22.4 km/h)	13.9 mph (22.4 km/h)
Powershift	13.9 mph (22.4 km/h)	16.1 mph (25.9 km/h)
Gear 4	20.5 mph (33.0 km/h)	20.5 mph (33.0 km/h)
Powershift	20.5 mph (33.0 km/h)	N/A

Final Drives

Type	heavy-duty, inboard planetary final drives evenly distribute shock loads over three gears

Brakes (conform to SAE J1473)

Service brakes	hydraulic multi wet disc, mounted inboard, self adjusting and self equalizing
Parking and secondary brake	spring applied, hydraulically released multi wet disc, independent of service brakes, switch-operated electrical control, self engaging with engine shutdown

Capacities

	Fill / Change
Fuel tank (with ground level fueling)	26 gal. (98 L)
Engine coolant	4.3 gal. (16 L)
Engine oil including filter	9 qt. (8.5 L)
Torque converter and transmission	15 qt. (14 L)
Hydraulic system	14.4 gal. (54.5 L)
Rear axle	3.5 gal. (13 L)
Mechanical-front-wheel-drive axle	2.3 gal. (8.5 L)

Steering

Type hydrostatic power steering conforms to SAE J1151, emergency steering to SAE J53

Mechanical-front-wheel-drive

Curb turning radius with brakes	10 ft. 11 in. (3.34 m)
Without brakes	13 ft. 8 in. (4.17 m)
Bucket clearance circle with brakes	29 ft. 9 in. (9.07 m)
Without brakes	35 ft. 3 in. (10.74 m)
Steering wheel turns, stop to stop	3
Axle oscillations stop to stop, both axles	22 degrees
Axle ratings (SAE J43)	17,340 lb. (7865 kg) front / 12,610 lb. (5720 kg) rear

Hydraulic System

System	open center
Pressure	2,750 psi (19 000 kPa)
Pump	gear type with integral priority valve
Flow @ 2,200 rpm	25 gpm (94.5 L/min.)
Filter, return oil	10-micron, spin-on enclosed replaceable element

Cylinders

	Bore	*Stroke*	*Rod*
Loader boom (2)	3.15 in. (80 mm)	31.1 in. (790 mm)	1.97 in. (50 mm)
Loader bucket (1)	3.54 in. (90 mm)	29.3 in. (744 mm)	1.97 in. (50 mm)
Steering (1) standard axle	1.97 in. (50 mm)	9.49 in. (241 mm)	0.98 in. (25 mm)
Steering (1) MFWD axle	2.56 in. (65 mm)	8.27 in. (210 mm)	1.42 in. (36 mm)

Three-Point Hitch — 210LE

	Bore	*Stroke*	*Rod*
Lift (1)	3.00 in. (76.2 mm)	8.00 in. (203.0 mm)	2.00 in. (50.8 mm)
Pitch (1)	2.50 in. (63.5 mm)	8.50 in. (215.9 mm)	1.25 in. (31.8 mm)
Tilt (1)	3.00 in. (76.2 mm)	4.75 in. (120.7 mm)	2.00 in. (50.8 mm)

Tires

	Rear	*Front*
With mechanical-front-wheel-drive	16.9-24, 8 PR R4	12-16.5, 8 PR NHS

Category II Three-Point Hitch

Type	heavy duty, integral to vehicle mainframe, with individual lever control of the lift, tilt, pitch, and auxiliary functions and with down force and float on the lift circuit
Static lift at lower link, ends horizontal	6,870 lbf (30.57 kN)
Static lift 24 in. (610 mm) behind lift points	3,790 lbf (16.85 kN)
Controlled hydraulic flow rate, maximum	10 gpm (37.9 L/min.)

SAE J/ISO 6016.3.2.1 Operating Weights

Base tractor with full fuel tank and 165-lb. (75 kg) operator	9,130 lb. (4141 kg)
Hitch weight / drawbar	535 lb. (243 kg)
Wheel weights	1,100 lb. (499 kg)
1.00-cu.-yd. (0.76 m^3) bucket	740 lb. (336 kg)
1.12-cu.-yd. (0.86 m^3) bucket	940 lb. (426 kg)
1.25-cu.-yd. (0.96 m^3) multipurpose bucket	1,640 lb. (744 kg)
88-in.-wide Cameco-brand box blade	1,650 lb. (748 kg)
84-in.-wide Cameco-brand box blade	1,620 lb. (735 kg)
Maximum allowable operating weight	16,000 lb. (7257 kg)

Loader Buckets

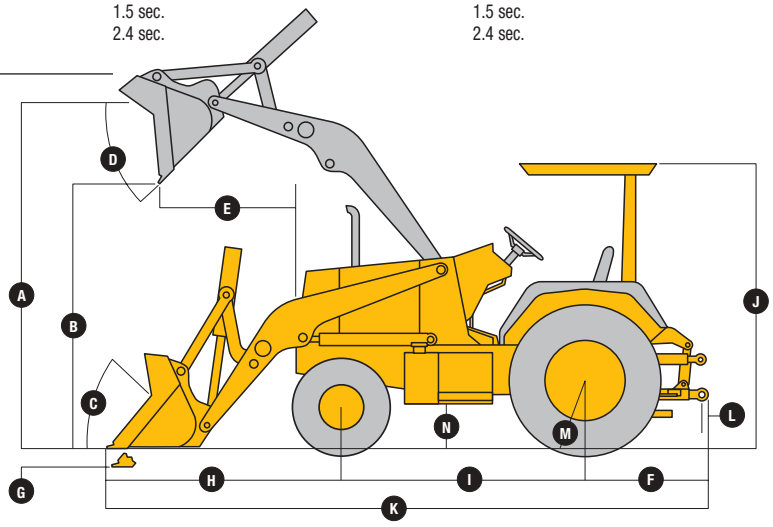
	Width	*Heaped Capacity*	*Weight*
Heavy-duty long lip	86 in. (2180 mm)	1.00 cu. yd. (0.76 m^3)	710 lb. (322 kg)
	86 in. (2180 mm)	1.12 cu. yd. (0.86 m^3)	940 lb. (426 kg)
Multipurpose	86 in. (2180 mm)	1.12 cu. yd. (0.86 m^3)	1,450 lb. (658 kg)

Loader Performance

	with 1.00-cu. yd. (0.76 m^3) Heavy-Duty Long Lip Bucket	*with 1.12-cu. yd. (0.86 m^3) Heavy-Duty Long Lip Bucket*	*with 1.25-cu. yd. (0.96 m^3) Multipurpose Bucket*
Operator control	single lever	single lever	single lever
Breakout force	7,900 lbf (35.14 kN)	7,750 lbf (34.47 kN)	6,900 lbf (30.69 kN)
Lifting capacity, full height	5,280 lb. (2395 kg)	5,100 lb. (2313 kg)	4,600 lb. (2086 kg)
Height to bucket hinge pin, maximum	11 ft. 4.7 in. (3.47 m)	11 ft. 4.7 in. (3.47 m)	11 ft. 4.7 in. (3.47 m)
Dump clearance, bucket at 45 degrees	8 ft. 4.6 in. (2.56 m)	8 ft. 4.4 in. (2.55 m)	8 ft. 0.5 in. (2.45 m)
Reach at full height, bucket at 41.6 degrees	34.4 in. (875 mm)	33.8 in. (858 mm)	35.4 in. (899 mm)
Rollback angle at ground level	44 degrees	44 degrees	44 degrees
Digging depth below ground, bucket level	9.6 in. (245 mm)	10.2 in. (259 mm)	11.8 in. (300 mm)
Raising time to full height	5.2 sec.	5.2 sec.	5.2 sec.
Bucket dump time	1.5 sec.	1.5 sec.	1.5 sec.
Bucket lowering time (power down)	2.4 sec.	2.4 sec.	2.4 sec.

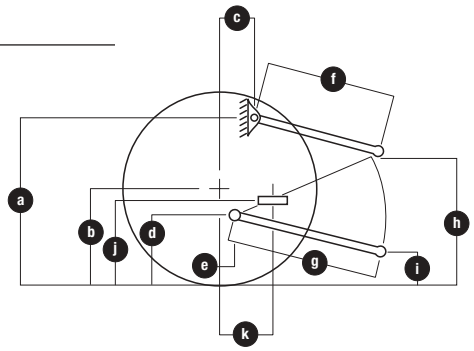
Tractor Loader Dimensions

A	At 45-degree dump angle	10 ft. 10.9 in. (3.33 m)
	At full height	11 ft. 4.7 in. (3.47 m)
B	At 45-degree dump angle	8 ft. 4.6 in. (2.56 m)
	At full height	8 ft. 9.7 in. (2.69 m)
C	Bucket pin 11 in. (280 mm) off ground	44 degrees
D	At full height	41.6 degrees
E	At 45-degree dump angle	37.0 in. (940 mm)
	At full height	34.4 in. (874 mm)
F	Lower link horizontal	45.0 in. (1143 mm)
G	Bucket level	9.6 in. (244 mm)
H	Bucket level on ground	78.1 in. (1984 mm)
	Bucket rolled back, pin 11 in. (280 mm) off ground	76.6 in. (1946 mm)
I	Wheelbase	83.3 in. (2116 mm)
J	Transport height	97.6 in. (2479 mm)
K	Bucket level on ground	17 ft. 2 in. (5.2 m)
L	Lower link pin center	1.6 in. (40 mm)
M	Static loaded radius	23.0 in. (584 mm)
N	Ground clearance	
	Under MFWD axle	11.3 in. (287 mm)
	Under transmission	12.3 in. (312 mm)
	Width over rear tires	84.0 in. (2134 mm)



Three-Point Hitch Dimensions

a	Height of hole for top link	30.8 in. (783 mm)
b	Height of rear axle center	23.0 in. (584 mm)
c	Top link hole distance from rear axle center	17.7 in. (450 mm)
d	Height of lower link point	18.3 in. (465 mm)
e	Lower link point distance from rear axle center	14.0 in. (356 mm)
f	Pitch cylinder (top link)	
	Retracted	22.5 in. (572 mm) min.
	Extended	31.0 in. (788 mm) max.
g	Lower link length	29.5 in. (749 mm)
h	Maximum height of lower link	28.1 in. (714 mm)
i	Minimum height of lower link	7.7 in. (196 mm)
j	Height of drawbar	12.8 in. (325 mm)
k	Hitch pin from rear axle center	33.2 in. (843 mm)



210LE LANDSCAPE LOADER

Key: ● **Standard equipment** ▲ **Optional or special equipment**

*See your John Deere dealer for further information.

210LE Engine

- ● Meets EPA and CARB emission non-road regulations
- ● John Deere Model 4045D – 4.5 liter, 73 SAE net hp naturally aspirated, isolation mounted
- ▲ John Deere Model 4045T – 4.5 liter, 80 SAE net hp turbocharged, isolation mounted
- ● Diagnostic capabilities with Tier-II engine
- ● Vertical spin-on engine oil filter
- ● Spin-on John Deere fuel filter
- ● Oil-to-water engine oil cooler
- ● Antifreeze, –34°F (–37°C)
- ● Coolant recovery tank
- ● Serpentine belt with automatic belt tensioner
- ● Sucker-type cooling fan
- ● Enclosed safety fan guard
- ● Dual element dry-type air cleaner with evacuator valve and prescreener
- ● Muffler, underhood with curved-end exhaust stack
- ▲ Muffler, spark arrested, underhood with curved-end exhaust stack
- ▲ Electric ether starting aid
- ▲ Engine coolant heater, 1,000 watts

Power Train

- ● Transmission with powershift reverser and torque converter: Fully synchronized four forward, four reverse speeds / Isolation mounted to mainframe
- ▲ Powershift transmission: Torque converter with electrically actuated twist grip F-N-R in 1st through 4th gears
- ● Transmission oil cooler
- ● Vertical spin-on transmission filter
- ● Electric forward-neutral-reverse control lever with neutral safety switch interlock
- ● Electric clutch cutoff on gearshift and loader levers
- ● Differential lock, electric foot-actuated
- ● Planetary final drives
- ● Hydraulic service brakes (conform to SAE J1473): Inboard, wet multi-disc, self adjusting and self equalizing
- ● Parking brake with electric switch control (conforms to SAE J1473): Spring applied, hydraulically released wet multi-disc / Independent of service brakes
- ● Hydrostatic power steering with emergency manual mode
- ● MFWD axle
- ● Mechanical-front-wheel-drive, standard differential: Electric on/off control / Driveshaft guard / Sealed axle
- ▲ Mechanical-front-wheel-drive, limited-slip differential: Electric on/off control / Driveshaft guard / Sealed axle
- ▲ Transmission guard
- ▲ Rear wheel spacers for use with chains*

210LE Three-Point Hitch

- ● Integral Category II
- ● Four-function sectional hydraulic valve, 6 gpm: Lift, with down-pressure and float / Tilt, single / Pitch / Fourth function auxiliary with capped hoses
- ● Cylinders: Lift (1) / Tilt (1) / Pitch (1)
- ▲ Fifth-function auxiliary valve with control lever
- ▲ Hydraulic flow cartridge, 3 gpm*
- ▲ Second tilt cylinder

Loader

- ● Hydraulic self leveling
- ● Return-to-dig feature
- ● Single-lever control with electric clutch cutoff switch
- ● Bucket-level indicator
- ● Loader boom service lock
- ▲ Loader front coupler
- ▲ Third-function valve and lever for auxiliary equipment

Hydraulic System

- ● 25 gpm (95 L/min.) gear pump, open center system
- ● Independent hydraulic reservoir
- ● Hydraulic oil cooler
- ● "O"-ring face seal connectors
- ● 10-micron vertical spin-on filter

Electrical

- ● 12-volt system
- ● 65-amp alternator
- ● Single battery with 180-min. reserve capacity and 925 CCA
- ▲ Dual batteries with 360-min. reserve capacity and 1,850 CCA
- ● Positive terminal battery cover
- ● Blade-type multi-fused circuits
- ● By-pass start safety cover on starter

Lights

- ● Two front halogen driving/work lights, 32,500 candlepower each
- ▲ Deluxe electrical package with rear lights, light guards for front and signal lights, two 12-volt convenience outlets, and battery disconnect switch
- ● Two combination front/rear turn signal/flashing
- ● Two rear stop and tail
- ● Two rear reflectors
- ▲ Rotating beacon*

Operator's Station

- ● Two-post ROPS/FOPS canopy with steel roof (conforms to SAE J1040): Isolation mounted
- ▲ Operator enclosure*
- ● Left front access
- ● Slip-resistant steps and ergonomically located handholds
- ● Built-in Operator's Manual storage compartment with manual

210LE Operator's Station *(continued)*

- ● Interior rearview mirror
- ● Foot throttle
- ▲ Hand throttle
- ● Horn
- ● Key start switch with electric fuel shutoff
- ● Hourmeter, electric
- ● Fuel gauge, illuminated electric
- ● Hydraulic self leveling
- ● Monitor system with audible and visual warning: Engine air filter restriction indicator / Alternator indicator / Engine coolant temperature indicator with audible warning / Engine oil pressure indicator with audible warning / Hydraulic filter restriction indicator / Torque converter oil temperature indicator / Parking brake on/off indicator with audible warning / Seat belt indicator / Mechanical front-wheel-drive on/off indicator
- ● Suspension vinyl seat with flip-up armrests, backrest angle adjustment, swivel base, 3-in. seat belt with retractor
- ▲ Non-suspension vinyl seat without armrests, with 3-in. seat belt with retractor

Loader Buckets

- ● Less bucket, with bucket pins
- ▲ Heavy-duty bucket with lift loops, prepunched for bolt-on cutting edge
- ▲ Heavy-duty buckets with bolt-on cutting edge, skid plates, and lift loops
- ▲ Multipurpose buckets with bolt-on cutting edge, skid plates, and lift loops

Tires

- ▲ 12-16.5, 8 PR NHS front tires
- ● 16.9-24, 8 PR R4 rear tires

Overall Vehicle

- ● One-piece unitized construction mainframe with integral front bumper
- ● Vehicle tiedowns, two front and two rear
- ● Fuel tank, 26 gal. (98 L), ground level fueling
- ● Vandal protection for instrument panel, access doors, fuel tank, and hydraulic reservoir
- ● Reverse warning alarm
- ● Dent-resistant rear fenders
- ▲ Three-point hitch counterweight
- ▲ Wheel weights
- ▲ Hydrostatic PTO, 540 rpm
- ▲ Three-point hitch weight box*
- ▲ Drawbar, fixed single position
- ▲ Box scraper *(contact Cameco Industries for ordering information and factory installation)*
- ▲ SMV emblem*
- ▲ Brush guards*
- ▲ Fender extensions*
- ▲ Cab panels*

CONTROL OWNING AND OPERATING COSTS

Customer Personal Service (CPS) is part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

Fluid analysis program—tells you what's going on inside *all* of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

Component life-cycle data—gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) agreements—give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

Extended coverage—gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by John Deere and is honored by *all* Deere construction dealers.

Customer Support Advisors (CSAs)—Deere believes the CSA program lends a *personal* quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.

JOHN DEERE

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. No derating is required up to 5,000-ft. (1500 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE and/or ISO standards. Except where otherwise noted, these specifications are based on a unit with 16.9-24, 8 PR R4 rear tires; 12-16.5, 8 PR NHS front tires; 1.00-cu. yd. (0.76 m^3) loader bucket; full fuel tank; and 175-lb. (79 kg) operator.

SAFETY live with it

DKA210LE Litho in U.S.A. (05-08)