

# Uni-Loader®

18 horsepower (13.42 kW) gasoline  
18 horsepower (13.42 kW) diesel  
Two-lever hand control

# 1818



**case**

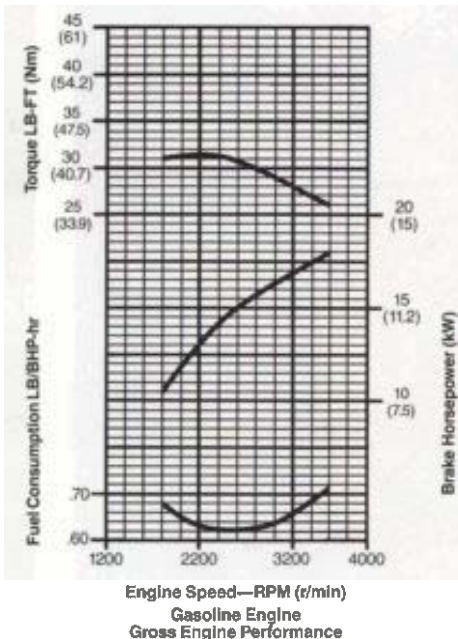
**1818**

# 1818 Basic Tractor

## Engine (Gasoline)

Make and model . . . **Onan P2186-1/10550**  
 Type of fuel . . . . . Gasoline  
 No. of cylinders . . . . . 2  
 Bore and stroke . . . . . 3.25" x 2.875"  
 (83 mm x 73 mm)  
 Displacement . . . . . 47.7 in<sup>3</sup> (782 cm<sup>3</sup>)  
 Compression ratio . . . . . 7.0:1  
 Fuel induction . . . . . Carburetor  
 Fuel supply . . . . . Electric fuel pump  
 and carburetor  
 Air cleaner . . . . . Dry type,  
 replaceable element  
 Oil filter . . . . . Replaceable spin-on  
 cartridge, full flow  
 Lubrication . . . . . Positive pressure  
 Cooling system . . . . . Air  
**Horsepower**  
 (1) Gross . . . . . 18 @ 3600 rpm  
 (13.4 kW @ 3600 r/min)  
**Max torque ft-lb**  
 (1) Gross . . . . . 30.7 @ 2400 rpm  
 (41.6 Nm @ 2400 r/min)  
 (1) Gross engine horsepower or torque at flywheel  
 per SAE Standard J607.

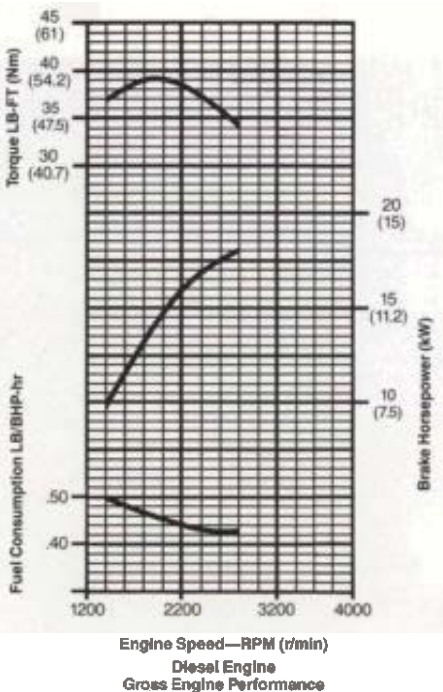
## Power Curve



## Engine (Diesel)

Make and model . . . . . **Kubota D850-B**  
 Type of fuel . . . . . No. 2 diesel  
 No. of cylinders . . . . . 3  
 Bore and stroke . . . . . 2.83" x 2.76"  
 (72 mm x 70 mm)  
 Displacement . . . . . 52.2 in<sup>3</sup> (855 cm<sup>3</sup>)  
 Compression ratio . . . . . 22:1  
 Fuel supply . . . . . Injection pump  
 Air cleaner . . . . . Dry type,  
 replaceable element  
 Oil filter . . . . . Replaceable spin-on  
 cartridge, full flow  
 Lubrication . . . . . Positive pressure  
 Cooling system . . . . . Liquid  
**Horsepower**  
 (1) Gross . . . . . 18 @ 2800 rpm  
 (13.42 kW @ 2800 r/min)  
**Max. torque ft-lb**  
 (1) Gross . . . . . 39 @ 1800 rpm  
 (52.9 Nm @ 1800 r/min)  
 (1) Gross engine horsepower or torque at flywheel  
 per SAE Standard J1349.

## Power Curve



## Electrical

System voltage . . . . . 12-volt  
 Battery: gasoline . . . . . 350 CCA  
 diesel . . . . . 350 CCA  
 Alternator: gasoline . . . . . 20 amp  
 diesel . . . . . 18 amp

## Steering

Independent—360° counter-rotation.  
 Steering, braking, forward and reverse  
 movement controlled by operation of two  
 hand levers.

## Power Train

Type . . . . . Hydrostatic with single stage  
 chain drive to all wheels.  
**Transmission** . . Tandem pump assembly  
 consisting of two variable displacement  
 pumps, gear type charge pump, gear type  
 system pump, two fixed displacement  
 motors.  
**Brakes** . . . . . Mechanical parking latch

## Hydraulic System

**Main relief setting** . . . . . 1800 ± 50 psi  
 (12 411 ± 345 kPa)  
**Lift cylinder** (2) 2" dia x 27" stroke, 1" rod  
 (51 mm dia x 686 mm stroke, 25 mm rod)  
**Tilt cylinders** (2) 2" dia x 13.1" stroke, 1" rod  
 (51 mm dia x 333 mm stroke, 25 mm rod)  
**Pump capacity** . . . . .  
 Gasoline:  
 . . . . . 9 gpm @ 3600 rpm @ 1800 psi  
 (34.1 L @ 3600 r/min @ 12 411 kPa)  
 Diesel:  
 . . . . . 9 gpm @ 2800 rpm @ 1800 psi  
 (34.1 L @ 2800 r/min @ 12 411 kPa)  
**Filter equipment** . . . 10 micron, spin-on  
 type with by-pass valve.

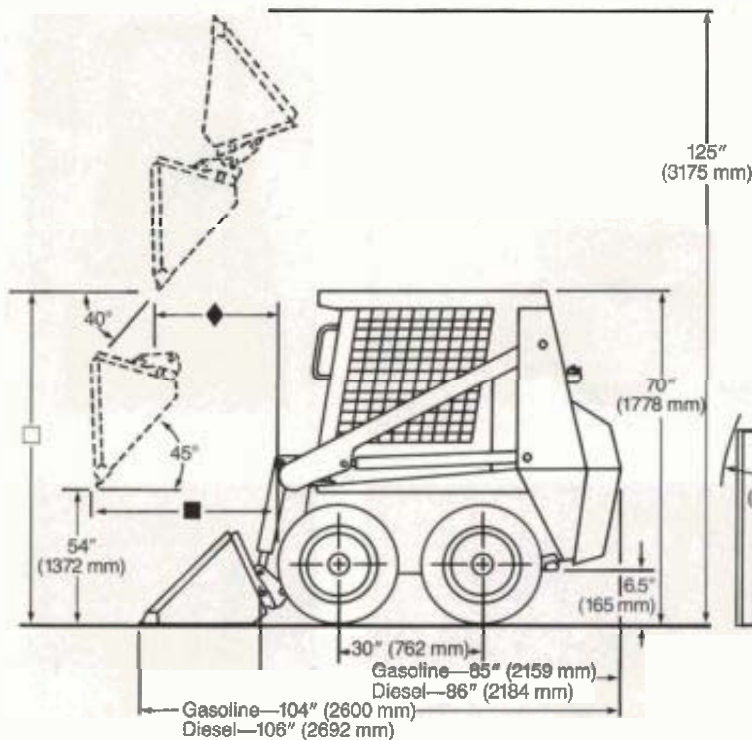
## Service Capacities

	U.S.	Liters
Cooling system (diesel)	7 qt	6.6
Fuel tank	8.5 gal	32.2
Engine oil		
w/filter—gasoline	2.3 qt	2.2
diesel	4.9 qt	4.6
w/o filter—gasoline	1.75 qt	1.7
diesel	4.4 qt	4.2
Hydraulic reservoir		
w/filter	23 qt	21.8
w/o filter	22 qt	20.0
Chain compartments (2) per side	3 qt	2.8

## Weights

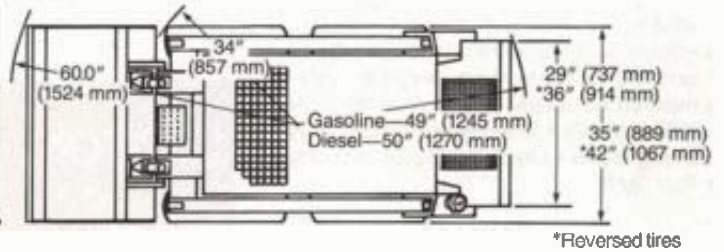
**Shipping**  
 Gasoline . . . . . 2303 lb (1045 kg)  
 Diesel . . . . . 2438 lb (1106 kg)  
 Includes 2 gal (7.6 L) fuel, no operator,  
 no bucket, 5.70 x 15 tires, ROPS and  
 standard equipment.  
**Operating**  
 Gasoline . . . . . 2593 lb (1176 kg)  
 Diesel . . . . . 2728 lb (1237 kg)  
 Includes full fuel, 175 lb (79 kg) operator,  
 35" (889 mm) bucket, 5.70 x 15 tires,  
 ROPS and standard equipment.

# Operational Data



Note: Specifications taken with 35" (889 mm) bucket, 5.70 x 15 tires ROPS and standard equipment unless otherwise specified.

- Varies with bucket, refer to Dump Height in chart below.
- ◆ Varies with bucket, refer to Dump Reach in chart below.
- Varies with bucket, refer to Dump Reach in chart below.



\*Reversed tires

## Buckets

Type	Width		Struck Capacities		SAE Heaped Weight		Weight		□ Dump Height		◆ Dump Reach		■ Dump Reach		Dump Angle
	in	mm	ft <sup>3</sup>	m <sup>3</sup>	ft <sup>3</sup>	m <sup>3</sup>	lb	kg	in	mm	in	mm	in	mm	deg
Dirt/Utility	35	889	3.82	0.11	4.93	0.14	115	52	74	1880	29	737	34	864	40°
Dirt/Utility	44	1118	4.84	0.14	6.34	0.18	130	59	74	1880	29	737	34	864	40°

## Performance Specifications

- Tipping load—SAE rated
  - gasoline . . . . . 1100 lb (499 kg)
  - diesel . . . . . 1300 lb (590 kg)
- Operating load—SAE rated
  - gasoline . . . . . 550 lb (249 kg)
  - diesel . . . . . 650 lb (295 kg)
- Raising time with rated load in bucket . . . . . 4.8 sec
- Lowering time bucket empty . . . . . 2.8 sec.
- Rollback time from full dump to full rollback . . . . . 2.4 sec.
- Breakout force—
  - lift cylinders . . . . . 1530 lbf (6806 N)
  - tilt cylinders . . . . . 1210 lbf (5382 N)
- Hyd. lift capacity to max height
  - gasoline . . . . . 1100 lb (499 kg)
  - diesel . . . . . 1300 lb (590 kg)
- Travel speed
  - forward and reverse 4.5 mph (7.2 km/h)



### Control Lock-Out

Prevents activation of hydraulics by automatically shutting down hydraulic system and locking the parking latch. Standard equipment.



### Easy Engine Checks

Routine engine checks are easily handled without removal of covers and panels. Rear swing-open door provides ready access to the radiator and oil cooler compartment.



## Equipment Data

### Standard Equipment

550 lb (249 kg) gas or 650 lb (295 kg) diesel rated operating load with double-acting Case cylinders, less attachments with controls and hydraulics • Onan air-cooled gasoline or Kubota liquid-cooled diesel engine • Hydrostatic transmission with chain drive to all wheels • Spin-on hydraulic filter • 5.70 x 15 Chevron tires • 12-volt battery • Spark arresting muffler • Dry type air cleaner • Hand throttle • ROPS • Seat • Seat belt • Hourmeter • Fuel gauge (diesel only) • ROPS-mounted warning light monitoring system for hydraulic filter, charge inlet pressure, hydraulic system filter, transmission temperature, engine oil pressure, air cleaner restriction, electrical charging system and engine water temperature (diesel only) • Anti-freeze to -20°F (-29°C) • Engine low oil pressure warning alarm • Mechanical parking latch. • Tool Tach.

### Optional Equipment

(on basic machine)

27 x 8.50 x 15, Lug-type flotation tires • Lights • Auxiliary hydraulics • Horn • Cold start aid (diesel only) • Drawbar • Counterweight • Lift hook • Backup alarm • Fuel gauge (gas only).

### Optional Equipment

(attachments)

Augers • Blades—utility/snow • Buckets—dirt, utility • Exhaust controls • Forks—pallet, manure, manure with grapple • Fork positioner • Three-point hitch • Tooth bar • Tracks • Tree spade.



### Tilt ROPS

Tilts forward with gas strut assist to provide unobstructed access to engine, hydraulic hoses, pumps and motors for fast, easy servicing.



**Sold and serviced by:**

Note: All Case specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

#### Important

J I Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such changes. Unit illustrated is equipped with non-standard equipment.

**J I Case**

A Tenneco Company

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