

# **590 Super M+**

# SERIES 3 LOADER/BACKHOE TIER III CERTIFIED

#### **ENGINE**

Type 4-stroke, turbochar  Type 4-stroke, turbochar  Cylinders  Bore/Stroke 4.09 in x 5.1 (104 x 132 to 104 x			
Cylinders  Bore/Stroke 4.09 in x 5.1 (104 x 132 to 10		Case Family IV VE3 diesel, Tier III certified	
Bore/Stroke 4.09 in x 5.1 (104 x 132 in 104 x 132 in 104 x 132 in 105 in 10	e	4-stroke, turbocharged	
Displacement 274 in³ (4.  Fuel injection Direct high press common  Fuel Di  Primary fuel filter 5 mid  Secondary fuel filter 30 micron w/water trap and indicating I  Air intake Cross-  Cooling Lid  Engine speeds* (rpm)  Rated speed, full load 2200  Low idle 900 - 1000  High idle, no load 2330 - 2  Horsepower  Gross 110 (82 kW) @ 2200 rpm  Net 108 (81 kW) @ 2200	nders	4	
Fuel injection  Direct high press common  Fuel  Primary fuel filter  Secondary fuel filter  30 micron w/water trap and indicating I  Air intake  Cross-  Cooling  Lie  Engine speeds* (rpm)  Rated speed, full load  Low idle  900 - 1000  High idle, no load  2330 - 2  Horsepower  Gross  110 (82 kW) @ 2200 rpm  Net  108 (81 kW) @ 2200	e/Stroke	4.09 in x 5.19 in (104 x 132 mm)	
Fuel Di Primary fuel filter 5 mid Secondary fuel filter 30 micron w/water trap and indicating I Air intake Cross- Cooling Lid Engine speeds* (rpm) Rated speed, full load 2200 Low idle 900 - 1000 High idle, no load 2330 - 2 Horsepower Gross 110 (82 kW) @ 2200 rpm Net 108 (81 kW) @ 2200	olacement	274 in³ (4.5 L)	
Primary fuel filter 5 min Secondary fuel filter 30 micron w/water trap and indicating I Air intake Cross- Cooling Lie Engine speeds* (rpm) Rated speed, full load 2200 Low idle 900 - 1000 High idle, no load 2330 - 2 Horsepower Gross 110 (82 kW) @ 2200 rpm Net 108 (81 kW) @ 2200	l injection	Direct high pressure common rail	
Secondary fuel filter 30 micron w/water trap and indicating I Air intake Cross- Cooling Lie Engine speeds* (rpm) Rated speed, full load 2200 Low idle 900 - 1000 High idle, no load 2330 - 2 Horsepower Gross 110 (82 kW) @ 2200 rpm Net 108 (81 kW) @ 2200	I	Diesel	
30 micron w/water trap and indicating I Air intake Cross- Cooling Lie Engine speeds* (rpm) Rated speed, full load 2200 Low idle 900 - 1000 High idle, no load 2330 - 2 Horsepower Gross 110 (82 kW) @ 2200 rpm Net 108 (81 kW) @ 2200	nary fuel filt	5 micron	
Cooling Lie Engine speeds* (rpm) Rated speed, full load 2200 Low idle 900 - 1000 High idle, no load 2330 - 2  Horsepower Gross 110 (82 kW) @ 2200 rpm Net 108 (81 kW) @ 2200	•		
Engine speeds* (rpm)  Rated speed, full load 2200  Low idle 900 - 1000  High idle, no load 2330 - 2  Horsepower  Gross 110 (82 kW) @ 2200 rpm  Net 108 (81 kW) @ 2200	ntake	Cross-flow	
Rated speed, full load 2200  Low idle 900 - 1000  High idle, no load 2330 - 2  Horsepower  Gross 110 (82 kW) @ 2200 rpm  Net 108 (81 kW) @ 2200	ling	Liquid	
Gross 110 (82 kW) @ 2200 rpm Net 108 (81 kW) @ 2200	ated speed ow idle	load 2200 00 - 1000	
Net 108 (81 kW) @ 2200	•		
Maximum torque @ 1400 rpm		110 (82 kW) @ 2200 rpm 108 (81 kW) @ 2200 rpm	
Gross 381 lb·ft (516 N·m	ross	que @ 1400 rpm 381 lb·ft (516 N·m) 372 lb·ft (505 N·m)	

NOTE: \*Engine speeds with standard transmission.

Meets federal emission regulations.

45%

# **ENGINE COOLING**

Torque rise at rated speed

Radiator	
Core tv	,

Core type Square wave Core size area 487 in² (.315 m²) Rows of tubes 5

Fan

Style Viscous 9 blade suction
Diameter 19.2 in (488 mm)
Ratio 1.4:1

Water pump
Style Integral

Engine oil

Pump Deep sump plate cooler with pressurized under-piston nozzles

Pump operating angle ratings

Side-to-side Rated 35° Fore and aft Rated 35°

Oil filtration Replaceable, full-flow cartridge

#### **TIRES**

Front 2WD – 14.5/75 x 16.1, 10-ply 4WD – 14 x 17.5, 10-ply

Rear

2/4WD - 21L x 24, 10-ply

# **POWERTRAIN**

# Transmission

4-speed synchromesh with hydraulically actuated clutches and electric F/R shuttle control, clutch disconnect buttons on the transmission shifter and loader control lever

Gear ratios	Forward	Reverse
1st	5.603	4.643
2nd	3.481	2.884
3rd	1.584	1.313
4th	0.793	0.657

Torque converter

Ratio 2.64

Differential lock On-the-go

push-button activation

Front 4WD axle

Differential ratio 2.130

Planetary hub ratio 6.0

Total reduction ratio 12.78

Rear axle

Differential ratio 2.5

Planetary hub ratio 6.4

Total reduction ratio 16.0

# Service brakes

Individually applied, power assisted, hydraulically actuated, maintenance-free, self-adjusting, inboard mounted, wet disc, 2 per side

Disc area 384 in<sup>2</sup> (.25 m<sup>2</sup>)

Parking brakes

Spring applied hydraulic release

Travel speeds - mph (km/h)

	1st	2nd	3rd	4th
Forward	4.0	6.3	13.6	25.6
	(6.4)	(10.1)	(21.8)	(41.1)
Reverse	4.7	7.5	16.3	30.7
	(7.6)	(12.1)	(26.2)	(49.4)

NOTE: Travel speeds at 2320 engine rpm.

#### **ELECTRICAL**

Voltage	12 volts, negative ground
Alternator	90 amp
Cold weather heater w/dual 12-volt 850 CCA batteries	
Power plugs	(2) 30 amps ea.

# **HYDRAULICS**

#### Pump

Variable dispalcement axial piston pump, transmission mounted

Main relief pressure

3100 + 0 - 100 psi @ 43 gpm (214 + 0 - 6 bar @ 161 L/min)

# Filtration

7-micron, full flow replaceable cartridge on return line, condition indicator light for filter

Oil cooler Heavy-duty

Loader flow @ rated engine rpm

Combined functions

43.0 gpm @ 3100 psi (161 L/min @ 214 bar)

Individual functions

31.5 gpm @ 3100 psi (119 L/min @ 214 bar)

# Loader control valve

Pressure compensated loader hydraulics for simultaneous lift and bucket operation

Hydraulics for simultaneous multifunction operation

Sectional valve single lever control for lift, tilt and auxiliary hydraulics, positive hold float and return-to-dig

Loader auxiliary hydraulics with proportional thumb switch w/detent on loader control handle 0 to 31.5 gpm (0 to 119 L/min)

Backhoe flow @ rated engine rpm

43.0 gpm @ 3100 psi (161 L/min @ 214 bar)

# **Pilot Backhoe Controls**

Backhoe Control Valve

Pressure compensated backhoe

Top 8-spool sectional closed-center with flushing inlet and circuits in parallel

# Backhoe auxiliary hydraulics

Uni-directional flow, variable flow from 0 to 36 gpm (136 L/min)

Control operation

Pilot Button on left joystick

Bi-Directional flow, variable flow from 0 to 38 gpm (144 L/min) @ rated engine rpm

Control operation

Dual proportional thumb control on left joystick

# **OPERATOR ENVIRONMENT**

ROPS/FOPS canopy Key start Hydrostatic steering Vinyl air suspension seat w/180° swivel

Seat turn around idle

Electronic hand and foot throttles

Ergonomic loader control lever w/push-button activation of differential lock and transmission de-clutch

Backhoe pilot controls

(2) Accessory power plugs (30 amp)

Anti-vandalism covers (canopy only)

Cup holder

Coat hook w/tether strap (cab only)

Interior rearview mirror

3 in (76 mm) retractable seat belt

Storage compartment w/lid

Left side storage tray

+900 lb (408 kg) counterweight

Extendahoe

4WD

# INSTRUMENTATION

Vehicle Control Module w/menu driven options and onboard diagnostics

Cruise control

Foot throttle sensitivity

Cold weather idle settings

Maintenance settings

Gauges

Engine water temperature

Converter oil temperature

Fuel

Tachometer/hourmeter

Voltmeter

Warning lights

Air cleaner restriction

Alternator

A/C high pressure

Cold start

Engine oil pressure

Hydraulic oil filter bypass

Parking brake

Rear axle fluid temperature sensing system Low fuel

Audible alarms w/diagnostics

Coolant temperature

Engine oil pressure

Parking brake engagement

Shuttle engagement/seat position

Backup alarm

Horn - dual switched front & rear

# TURNING DIAMETER

4WD – engaged	
Brakes on	26 ft 5 in (8.04 m)
Brakes off	29 ft 10 in (9.08 m)
4WD - disengaged	
Brakes on	24 ft 8 in (7.51 m)
Brakes off	25 ft 6 in (7.78 m)

NOTE: Turning diameter dimensions curb to curb w/general purpose bucket.

# **OPERATING WEIGHTS**

# **Lightest Configuration**

Unit equipped with 4WD, ROPS canopy, vinyl air suspension seat, 93 in (2.36 m) general purpose loader bucket, 24 in (610 mm) Universal backhoe bucket, Extendahoe dipperstick, 21L x 24 rear tires, 14 x 17.5 front tires, single battery, flip over stabilizer pads,

no operator 15,268 lb (6926 kg)

# **Heavy Configuration**

Unit equipped with 4WD, cab, cloth air suspension seat, 93 in (2.36 m) 4 IN 18 loader bucket, 24 in (610 mm) Universal backhoe bucket, Extendahoe® dipperstick, dual batteries, flip stabilizer pads, no operator 19,578 lb (8881 kg)

Add-on weights

Cab (over canopy) +454 lb (206 kg)

# SERVICE CAPACITIES

Fuel tank	42.0 gal (159 L)
Hydraulic system	
Total	32.2 gal (122 L)
Total w/Extendahoe®	33.7 gal
	(127.6 L)
Reservoir w/filter	12.5 gal (47.1 L)
Reservoir w/o filter	12.0 gal (45.2 L)
Transmission	
4WD Total system	20.5 qt (19.4 L)
4WD Front axle	
Differential	7.1 qt (6.7 L)
Planetaries (each)	.63 qt (.6 L)
Rear axle	
Differential and planetaries	19.7 qt (18.6 L)
Engine oil w/filter	14.4 qt (13.6 L)
Cooling system	
w/heater	19.0 qt (18.0 L)
w/o heater	18.3 qt (17.3 L)
Window washer reservoir	3.5 qt
	(3.3 L)

#### LOADER

Single-lever control for lift and tilt
Positive hold float
Return-to-dig
Automatic self-leveling
In-line, reverse linkage
Dual parallel dump cylinders
Clutch disconnect button on loader control and

shift levers Bucket position indicator

# Loader Bucket Sizes

Width	Weight	Struck	Heaped	
General Purpose Bucket (w/ lift points and bolt-on cutting edge)				
Width	Weight	Struck	Heaped	
93 in	1,123 lb	1.1 yd³	1.3 yd <sup>3</sup>	
(2.36 m)	(509 kg)	(0.84 m³)	(1.0 m³)	

(2.36 m)	(509 kg)	(0.84 m <sup>3</sup> )	(1.0 m <sup>3</sup> )
96 in	1,324 lb	1.27 yd³	1.5 yd³
(2.44 m)	(601 kg)	(0.97 m <sup>3</sup> )	(1.15 m³)
	4 IN 1	<sup>®</sup> Bucket	
93 in	1,628 lb	1.0 yd <sup>3</sup>	1.2 yd³
(2.36 m)	(738 kg)	(0.76 m <sup>3</sup> )	(0.92 m <sup>3</sup> )

# **BACKHOE**

Over-center design

Cast, ductile iron boom, and swing tower

Closed-center hydraulics - Pro Control System

17, 940 lb·ft (24 370 N·m) swing torque

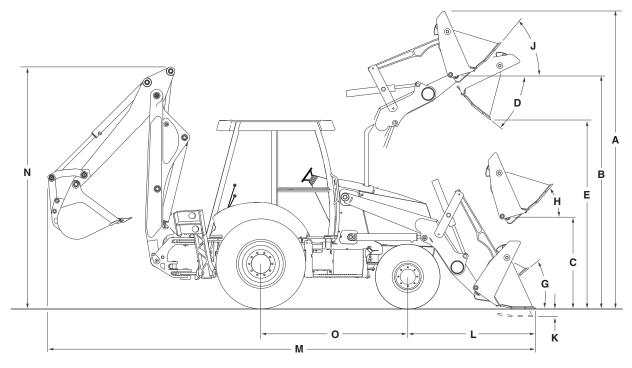
Case attachment coupler

Pilot Controls

Wing stabilizers w/flip over dirt pad

# **Backhoe Bucket Sizes**

Width	Weight	Heaped
	Universal Buckets	
12 in	290 lb	3.40 ft <sup>3</sup>
(305 mm)	(132 kg)	(0.10 m <sup>3</sup> )
16 in	346 lb	3.60 ft <sup>3</sup>
(406 mm)	(157 kg)	(0.10 m <sup>3</sup> )
18 in	350 lb	5.30 ft <sup>3</sup>
(457 mm)	(159 kg)	(0.15 m <sup>3</sup> )
24 in	413 lb	7.70 ft <sup>3</sup>
(610 mm)	(187 kg)	(0.22 m <sup>3</sup> )
30 in	475 lb	10.20 ft <sup>3</sup>
(762 mm)	(215 kg)	(0.29 m <sup>3</sup> )
36 in (914 mm)	535 lb (243 kg)	12.70 ft <sup>3</sup> (0.36 m <sup>3</sup> )
	High Capacity Bucke	ts
24 in	450 lb	8.50 ft <sup>3</sup>
(610 mm)	(204 kg)	(0.24 m <sup>3</sup> )
30 in	517 lb	10.60 ft <sup>3</sup>
(762 mm)	(235 kg)	(0.30 m <sup>3</sup> )



# **LOADER DIMENSIONS**

		General Purpose Bucket*	4 IN 1 <sup>®</sup> Bucket
A. Overall opera	ting height – fully raised	14 ft 2 in (4.32 m)	14 ft 6 in (4.43 m)
Height to –			
Bucket hin	ge pin fully raised	11 ft 5 in (3.47 m)	11 ft 5 in (3.47 m)
Bucket hin	ge pin @ SAE carry	13.7 in (349 mm)	14.9 in (379 mm)
Dump angle	@ full height	45°	45°
. Dump clearar	nce @ full height, 45° dump –		
Bucket		9 ft 0 in (2.75 m)	9 ft 2 in (2.78 m)
Clam open	1	NA	9 ft 10 in (3.0 m)
Dump reach	@ full height, 45° dump –		
Bucket		27.5 in (699 mm)	25.9 in (659 mm)
Clam open	l	NA	11.5 in (293 mm)
Bucket rollba	ck -		
<b>3.</b> @ groundli	ne	40°	40°
I. @ SAE car	ry	45°	45°
. @ full heigh	nt	Adjustable	Adjustable
. Digging depti	n below grade –		
Bucket flat		3.8 in (96 mm)	4.3 in (109 mm)
Clam open	(dozing)	NA	1.7 in (42 mm)
Reach from fi	ront axle centerline - bucket on ground	77.6 in (1.97 m)	75.2 in (1.91 m)
Lift capacity t	to full height	7,327 lb (3323 kg)	7,437 lb (3373 kg)
Breakout force	e –		
Lift cylinde	ers	10,729 lbf (47 725 N)	10,294 lbf (45 790 N)
Dump cylir	nders	10,980 lbf (48 841 N)	12,004 lbf (53 396 N)
Bucket cuttin	g edge width	93 in (2.36 m)	93 in (2.36 m)
Maximum gra	ading angle	116°	116°
Maximum cla	m opening	NA	38.3 in (972 mm)
Moldboard he	eight	NA	36.8 in (934 mm)
Raising time	to full height	4.7 sec	4.7 sec
Bucket dump	ing time	1.2 sec	1.2 sec
Lowering time	9 –		
Power dov	vn	2.8 sec	2.8 sec
Return-to-	dig	3.1 sec	3.1 sec
Clam -	-		
Open time		NA	2.3 sec
Close time		NA	2.3 sec

NOTE: Loader dimensions taken with 4WD.

# **DIMENSIONS**

		Extendahoe <sup>®</sup>	
		Retracted	Extended
М.	Overall transport length –		
	General purpose bucket	23 ft 7 in (7.19 m)	NA
	4 IN 1® bucket	22 ft 8 in (6.91 m)	NA
	Overall transport width	7 ft 9 in (2.36 m)	NA
	Height –		
	To top of canopy To top of cab	8 ft 11 in (2.73 m) 8 ft 10 in (2.69 m)	8 ft 11 in (2.73 m) 8 ft 10 in (2.69 m)
	To top of exhaust stack	8 ft 7 in (2.62 m)	8 ft 7 in (2.62 m)
٧.	Transport	11 ft 7 in (3.54 m)	NA
	Ground clearance at backhoe frame	14.8 in (375 mm)	14.8 in (375 mm)
	Angle of departure	23°	23°
	Front wheel tread –		
	4WD	73.4 in (1.86 m)	NA
	Rear wheel tread	69.9 in (1.78 m)	NA
Э.	Wheelbase -		
	4WD	84.5 in (2.15 m)	NA

NOTE: Dimensions taken with 21L x 24 rear tires and 14.5/75L x 16.1 front tires except that data marked 4WD is taken with 14 x 17.5 front tires.

# **CYLINDERS**

	Bore Diameter	Rod Diameter	Stroke
oader			
Lift (2)	3.5 in (89 mm)	1.75 in (44.5 mm)	30.2 in (766 mm)
Bucket (2)	3.25 in (83 mm)	1.75 in (44.5 mm)	20.6 in (522 mm)
4 IN 1 <sup>®</sup> clam (2)	3.0 in (76 mm)	1.75 in (44.5 mm)	9.1 in (231 mm)
ackhoe			
Boom	5.5 in (139.7 mm)	2.5 in (63 mm)	38.4 in (976 mm)
Dipperstick	5.5 in (139.7 mm)	2.75 in (69.9 mm)	22.2 in (564.2 mm)
Bucket	3.75 in (95 mm)	2.75 in (69.9 mm)	34.3 in (872 mm)
Extendahoe®	3.0 in (76 mm)	1.75 in (44.5 mm)	48.0 in (1.22 m)
Swing (2)	4.0 in (101.6 mm)	2.0 in (50.8 mm)	11.5 in (292 mm)
Stabilizer (2)	5.0 in (127 mm)	2.25 in (57.2 mm)	20.4 in (519.4 mm)
teering			
4WD	2.48 in (63 mm)	1.5 in (38.1 mm)	9.53 in (242 mm)

# **BACKHOE LIFT CAPACITIES**

	Extend		ahoe <sup>®</sup>		
	Retr	acted	Exte	Extended	
Boom Lift	Distance from swing pivot (m)	Backhoe lift capacity – lb (kg)	Distance from swing pivot (m)	Backhoe lift capacity – lb (kg)	
+18 ft (5.48 m)				1,940 (880)	
+16 ft (4.87 m)			13 ft 6 in (4.11)	2,200 (998)	
+14 ft (4.27 m)	10 ft 8 in (3.25)	3,310 (1501)	15 ft 5 in (4.70)	2,300 (1043)	
+12 ft (3.66 m)	12 ft 9 in (3.89)	3,280 (1488)	16 ft 10 in (5.13)	2,420 (1098)	
+10 ft (3.05 m)	14 ft 2 in (4.32)	3,410 (1547)	17 ft 11 in (5.46)	2,370 (1075)	
+8 ft (2.44 m)	15 ft 2 in (4.62)	3,330 (1510)	18 ft 9 in (5.72)	2,420 (1098)	
+6 ft (1.83 m)	15 ft 11 in (4.85)	3,390 (1538)	19 ft 3 in (5.87)	2,420 (1098)	
+4 ft (1.22 m)	16 ft 3 in (4.96)	3,280 (1488)	19 ft 7 in (5.97)	2,310 (1048)	
+2 ft (0.61 m)	16 ft 4 in (4.98)	3,210 (1456)	19 ft 8 in (5.99)	2,290 (1039)	
Ground Level	16 ft 1 in (4.91)	3,120 (1415)	19 ft 6 in ft (5.94)	2,260 (1025)	
-2 ft (0.61 m)	15 ft 8 in (4.77)	3,010 (1365)	19 ft 2 in (5.84)	2,230 (1012)	
-4 ft (1.22 m)	14 ft 11 in (4.55)	2,950 (1338)	18 ft 6 in (5.64)	2,220 (1007)	
-6 ft (1.83 m)	13 ft 9 in (4.19)	2,850 (1293)	17 ft 8 in (5.38)	2,140 (971)	
-8 ft (2.44 m)	12 ft 2 in (3.71)	2,840 (1288)	16 ft 6 in (5.03)	2,110 (957)	
-10 ft ft (3.05 m)	9 ft 10 in (2.99)	2,810 (1275)	14 ft 10 in (4.52)	2,090 (948)	
-12 ft (3.66 m)	5 ft 8 in (1.72)	2,880 (1306)	12 ft 9 in (3.89)	2,180 (989)	
-14 ft (4.27 m)			9 ft 9 in (2.97)	2,240 (1016)	
-15 ft (4.57 m)			6 ft 0 in (1.83)	2,490 (1129)	
Dipper Lift					
+16 ft (4.87 m)			12 ft 10 in (3.91)	2,810 (1275)	
+14 ft (4.27 m)	10 ft 2 in (3.10)	4,850 (2200)	14 ft 0 in (4.27)	2,940 (1334)	
+12 ft (3.66 m)	11 ft 2 in (3.40)	5,310 (2409)	14 ft 7 in (4.45)	3,080 (1397)	
+10 ft (3.05 m)	11 ft 6 in (3.50)	5,510 (2500)	14 ft 9 in (4.50)	3,100 (1406)	
+8 ft (2.44 m)	11 ft 2 in (3.40)	5,720 (2595)	14 ft 8 in (4.47)	3,150 (1429)	
+6 ft (1.83 m)	10 ft 1 in (3.08)	5,740 (2604)	14 ft 0 in (4.27)	3,190 (1447)	
+4 ft (1.22 m)	7 ft 4 in (2.23)	6,590 (2989)	12 ft 9 in (3.89)	3,290 (1492)	

# **BACKHOE OPERATIONAL DATA**

	Extend	lahoe®
	Retracted	Extended
Digging depth –		
Maximum	15 ft 11 in (4.85 m)	19 ft 11 in (6.07 m)
Maximum w/hi-capacity bucket	16 ft 4 in (4.98 m)	20 ft 4 in (6.20 m)
2 ft (610 mm) flat bottom	15 ft 10 in (4.83 m)	19 ft 10 in (6.05 m)
8 ft (2.44 m) flat bottom	14 ft 11 in (4.55 m)	19 ft 2 in (5.84 m)
Overall reach from –		
Rear axle centerline	23 ft 3 in (7.09 m)	27 ft 2 in (8.28 m)
Swing pivot	19 ft 8 in (5.99 m)	23 ft 7 in (7.19 m)
Loading height	11 ft 5 in (3.48 m)	13 ft 9 in (4.19 m)
Loading reach – dipper retracted	9 ft 6 in (2.90 m)	12 ft 9 in (3.89 m)
Swing arc 1	180°	180°
Bucket rotation –		
#1 position	164°	164°
#2 position	190°	190°
Stabilizer spread - operating	11 ft 1 in (3.38 m)	11 ft 1 in (3.38 m)
Digging force –		
Bucket cylinder	14,718 lbf (65 469 N)	14,718 lbf (65 469 N)
Dipper cylinder	8,449 lbf (37 583 N)	5,999 lbf (26 685 N)
	w/bucket @ 50°	w/bucket @ 51°
Leveling angle		
maximum slope that backhoe		
will make vertical cut	12°	12°

NOTE: Lift capacities apply straight to the rear of prime mover. Equipped with 24 in (610 mm) Universal H.D. trenching bucket and Case coupler except as noted.

# STANDARD EQUIPMENT

# **OPERATOR'S COMPARTMENT**

See page 2

# **ENGINE**

Case Family IV 445TA/E3 non EGR turbocharged diesel

Tier III certified

Integral crank driven balancer

Automatic fan belt tensioner

Integral engine oil cooling

Primary 5 micron fuel filter

Secondary 30 micron fuel filter w/water trap

Dual element air cleaner with integral

pre-cleaner

90 amp alternator

(2) 850 CCA 12-volt batteries

Grid heater

Heavy-duty radiator w/deaeration bottle

Non-spark-arresting muffler

Aspirated air cleaner

Swing out fuel cooler

Cruise control

# LOADER

See page 2

# **BACKHOE**

See page 2

# **POWERTRAIN**

4F/4R Power shuttle synchromesh transmission

Torque converter

Transmission de-clutch

Electro-hydraulic differential lock

Hydrostatic steering

Outboard wet disc brakes

Remote lube front axle pivot

# **HYDRAULICS**

2-spool loader control valve

7-spool backhoe control valve

Heavy-duty oil cooler

# **OTHER**

Forward tilt engine hood

Replaceable, molded front bumpers

Front/rear tie downs

Reflective logos

Lights - Cab and Canopy

- (2) Rear tail/stop
- (2) Front flashers/turn
- (2) Rear flashers/turn
- (2) Front & 4 rear adjustable halogen lights (55 w)

Tool box

900 lb (408 kg) counterweight

3 in (76 mm) retractable seat belt

Ride control

Flip over stabilizer pads

# **OPTIONAL EQUIPMENT**

# **OPERATOR'S COMPARTMENT**

2 door cab with -

Air-conditioning, 100% filtered air, in-cab filter access, 8 adjustable roof vents, 2 floor vents, w/heater

Defroster

Dome light - door activated

Wipers, front and rear

Tinted glass

Floor mat

Cloth air suspension seat

Tilt wheel

Radio-ready kit w/antenna and speakers

Side window partial hold open

Inside release for side windows

Cab Convenience Package

Windshield washer w/adjustable

nozzles (front & rear)

Reduced sound level to 72 dB(A) Sun visor

Vinyl-covered interior

Form No. CCE1300805R

Cab, right door

Canopy Convenience Package

Front windshield w/wiper & washer

85 dB(A) sound

Floor mat

Sun visor

# **LOADER**

Hydraulic attachment coupler

Attachment auxiliary hydraulics

3-spool valve hydraulics w/ thumb controlled electro hydraulic switch w/detent

Buckets (see page 2)

# **BACKHOE**

Case integrated hydraulic coupler

Buckets (see page 2)

# **ENGINE**

Spark arresting muffler

# **POWERTRAIN**

Powershift transmission with Autoshift Comfort Steer

# **HYDRAULICS**

Auxiliary backhoe uni-directional hydraulics Auxiliary backhoe bi-directional hydraulics Button operated for pilot controls

# **OTHER**

Special paint

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

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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