

BID SUBMITTAL FORM
Alabama County Joint Bidding Program
Heavy Equipment – Bid Item: Heavy Duty Motorgrader-Option B

Company Name: THOMPSON TRACTOR COMPANY

Address: P.O. BOX 10367

BIRMINGHAM, AL 35202-0367

Bid Submitted by: JAY SMITH
(Name of company representative)

Title: SALES OPERATIONS MANAGER e-mail address: JAYSMITH@THOMPSONTRACTOR.COM

Phone: (205) 849-4242 Fax: (205) 849-4394

By submitting this bid, we agree:

Initials

The equipment model number identified below meets the bid specs for this bid item

JAS

That the bid price will be honored for all counties for the period from Jan. 1, 2021 to Dec. 31, 2021.

JAS

The equipment will be delivered at the bid price to all counties participating in the joint bid program.

JAS

The company acknowledges the freight preparation and delivery price is to be included in the total bid price for the standard machine.

JAS

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program.

JAS

The bid is accompanied by a current catalog or model specification document for the model number identified below.

JAS

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications.

JAS

The bid includes the e-verify documentation required by Alabama law.

JAS

If awarded the bid, a performance bond will be provided upon request.

JAS

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine.**

JAS

Total Bid Price for Standard Machine: \$ 227,544

(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs) *

Freight Preparation and Delivery: \$ 7,289

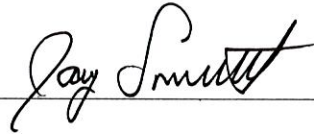
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ 379,750

Equipment Model #: CATERPILLAR 140

Description: MOTOR GRADER

Signature of company representative submitting bid: _____



Title: SALES OPERATIONS MANAGER

* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

BID SUBMITTAL FORM: OPTION COST SHEET

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine*



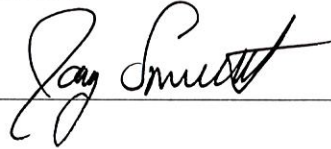
The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the Standard Machine



Equipment Model #: CATERPILLAR 140

Description: MOTOR GRADER

Signature of company representative submitting bid: _____



Title: SALES OPERATIONS MANAGER

***Note:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

140	HEAVY DUTY MOTOR GRADER B	2021 Pricing
515-2449	140 MOTOR GRADER	\$352,066
439-9110	14' PLUS MOLDBOARD	\$1,404
	BLADE, 14' X 27" X 1"	\$0
	INCLUDES END BITS WITH OVERLAY	\$0
507-7694	TOWING HITCH	\$556
522-6393	COLD WEATHER PACKAGE (ETHER STARTING AID)	\$778
380-6774	NON SY-KLONE PRECLEANER	\$0
559-2201	HYDRAULIC LINK BAR	\$0
522-6751	STANDARD DRAWBAR	-\$2,803
566-5529	NO GRADE CONTROL TECHNOLOGY	\$0
453-2908	MANUAL LOCK OUT	\$1,369
524-8998	BASE HYDRAULICS	\$0
526-9853	BLADE ACCUMULATORS	\$4,782
515-2231	HEAVY DUTY STARTER	\$0
562-3742	ROADING LIGHTS W/ FOLD DOWN ARM	\$1,924
522-6688	CAB PLUS	\$1,884
518-3382	AIR SUSPENSION SEAT	\$2,621
565-2320	EXTERNAL MIRRORS	\$0
519-3712	CELUIAR PRODUCT LINK PLE641	\$0
558-3846	STANDARD FAN	\$0
252-0714	14.0 R24 BS VKE * G2 TIRES ON MULTI PIECE RIMS	\$7,252
522-6654	COOLANT	\$0
0P-1939	WINDHSHIELD WASHER	\$0
0P-3978	FUEL ANTIFREEZE	\$0
386-1254	ENGLISH INSTRUCTIONS	\$0
516-2552	ENGLISH DECALS	\$0
519-3700	HALOGEN LIGHTS	\$657
501-4739	HALOGEN CAB ROOF LIGHTS	\$0
518-3017	WARNING STROBE	\$581
524-1768	REAR VISION CAMERA	\$2,601
518-3026	AM/FM BLUETOOTH RADIO	\$596
522-2419	TRANSMISSION GUARD	\$3,485
	TOTAL BID PRICE FOR STANDARD MACHINE	\$227,544
	FREIGHT PREPARATION AND DELIVERY	\$7,289
	TOTAL MANUFACTURER'S SUGGESTED RETAIL PRICE FOR STANDARD MACHINE	\$379,750

BID SPECIFICATIONS FOR HEAVY DUTY MOTOR GRADER – OPTION B

GENERAL

These specifications shall be construed as the minimum acceptable standards for a heavy-duty motor grader. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. The motor graders must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

The use of specific names or numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size, and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the Bid Submittal Form included in the invitation to bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

BID PRICE

The price bid shall include all destination charges, delivery charges, title fees, rebates and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual, one (1) copy of the repair manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment bid. If replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the County to use at no cost to the County until such time as the parts are delivered to the County so it can affect repairs to its machine.

WARRANTY

Bidders shall submit a copy of the manufacturer's standard warranty. Warranty shall include service response time of a maximum of 36 hours within notification by county.

Yes ☒ No ☐
Page # _____
or
Attachment ☒

ENGINE

Engine shall be a turbo-charged, direct injection, four-stroke, **6-cylinder** diesel engine and shall be electronically controlled for more efficient fuel injection and fuel burn.

Engine Shall be designed and manufactured by the machine manufacturer.

Yes ☒ No ☐
Page # 3,4

Engine displacement shall not be less than **567 cu. in.** and shall develop, as standard, a rated variable net power of at least **177 -250 HP.**

Yes ☒ No ☐
Page # 4

Engine shall be isolation/resilient mounted to minimize sound and vibration and shall meet currently required EPA emission regulations for manufacturer.

Yes ☒ No ☐
Page # 4, 140 price page →

Engine compartment enclosure doors shall be lockable without the use of external locks and accessible from the ground. All daily service points shall be accessible from ground level and grouped together.

Yes ☒ No ☐
Page # 140 price page →

Engine will increase its low idle to **1,000 rpm** when the battery voltage is below **24.5 volts** for more than **5 minutes** to ensure adequate system voltage and battery reliability.

Yes ☒ No ☐
Page # Bid Spec. P.1

STARTING SYSTEM

Shall be equipped with a **24-volt** electrical system. **115-amp** alternator.

Yes ☒ No ☐
Page # Bid Spec. P.1
Tech Spec. P.5

TRANSMISSION-8 Forward Speeds and 6 Reverse Speeds

Shall be designed and built by the machine manufacturer and shall be a direct drive, powershift, counter-shaft type transmission.

Yes ☒ No ☐
Page # 140 price page →

Shall be equipped with built-in self-diagnostic capability

Yes ☒ No ☐
Page # 17

A controlled throttle shifting system shall be standard to smooth directional gear changes without use of the inching pedal.

Yes ☒ No ☐
Page # 8

Final drive shall be a planetary design.

Yes ☒ No ☐
Page # Bid Spec. P.1

140 MOTOR GRADER
PIRACICABA, BRAZIL

Ship Weight
lbs

LIST PRICE
AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Electronic over-speed protection
Engine, C9 with ACERT technology, diesel with automatic engine derate and idle control. EPA/ARB tier 4 final & EU stage IV certified engine & aftertreatment
Parking brake, multi-disc, sealed and oil cooled
Sediment drain, fuel tank
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel
Electrical system, 24 volt
Lights, reversing
Starter, electric

OPERATOR ENVIRONMENT

Steering wheel
Air Conditioning with heater
Articulation
Centershift pin indicator
Display, digital speed and gear
Load sensing hydraulic controls:
-Right/left blade lift
-Circle drive
-Center shift
-Side shift
-Blade tip
-Front wheel lean
Doors, left and right side
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM and hydraulic oil temp, DEF/AdBlue)
Lights, night time cab
Messenger Display
-Meter

-Hour digital
Mirror
Inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, 77dB(A) ISO 6394
Storage area for cooler/lunchbox
Throttle control, electronic
Windows: laminated glass
Fixed front with intermittent wiper windows: tempered
Left and right side wipers
Cab Storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Seat belt, retractable 3"
Secondary steering
Tandem walkway/guards

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar, 6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 100 gallon (378 L)
Ground level fueling
DEF/AdBlue Tank, 3.3 gallon (12.5 L)
Hydraulic lines for base functions
Pump, hydraulic, high capacity (100cc / 6 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic
-transmission -coolant -fuel
Tool box
Debris guard

Machine shall be equipped with an electronic inching pedal for improved modulation and machine control, and with electronic over-speed protection to protect the engine and transmission from over speeding.

Yes ☒ No ☐
Page # Bid Spec. P. 1

Also, to be equipped with transmission guard.

Yes ☒ No ☐
Page # Tech Spec. P. 3
Bid Spec. p. 3

TANDEM

Machine to be equipped with differential lock/unlock electro-hydraulically controlled with a multi-disc design.

Yes ☒ No ☐
Page # Bid Spec. P. 11

Tandems shall be capable of oscillating **15 degrees** front up and **22 degrees** Rear up, with full machine articulation and having no interference between tandem wheel and machine structure

Yes ☒ No ☐
Page # Bid Spec. P. 2

CONTROLS AND HYDRAULICS

Conventional lever style controls

Yes ☒ No ☐
Page # Tech Spec. P. 7
Bid Spec. P. 1

Hydraulics system shall be a closed center, load sensing type, with a variable Displacement, axial piston-type pump.

Yes ☒ No ☐
Page # Bid Spec. P. 1

Implement valves shall be electro-hydraulic, designed and built by the machine manufacturer.

Yes ☒ No ☐
Page # Bid Spec. P. 1

Lock valves shall be integrated into the main implement valve to prevent cylinder drift.

Yes ☒ No ☐
Page # Bid Spec. P. 1

BLADES

Machine shall be equipped with **14 ft. long, 25 in** high and no less than **7/8** in thick moldboard with hydraulic side shift and tip control.

Yes ☒ No ☐
Page # 140 price page

Blade shall also include reversible overlay end bits.

Yes ☒ No ☐
Page # 140 price page

All blade functions shall be hydraulically or electronically actuated.

Yes ☒ No ☐
Page # Bid Spec. P. 1

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER
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LANE SELECTION

OP-9002	LANE 2 ORDER	0
	Only for dealers enrolled in the Base Orders Management (BOM) program.	
OP-9003	LANE 3 ORDER	0

PERFORMANCE PACKAGES**MOLDBOARDS**

L	320-9924	MOLDBOARD, 12' BASIC	0
		FOR USE IN LANE 3 ONLY	
		INCLUDES:	
		- Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm)	
		- Curved Cutting Edge, 6" X 5/8" (152mm x 16mm)	
		- End Bits, Standard, Without Overlay	
L	526-7045	MOLDBOARD, 14' BASIC	0
		INCLUDES:	
		- Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm)	
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)	
		- End Bits, Standard, Without Overlay	
L	439-9110	MOLDBOARD, 14' PLUS	0
		INCLUDES:	
		- Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm)	
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)	
		- End Bits, Standard, With Overlay	

REAR WORK TOOLS

P	523-8156	NO HITCH	0
		Provides a plate that bolts to the bumper that allows for attachment points for ripper or auxiliary hoses.	
P	507-7694	HITCH, TOWING	0
		Retrieval hitch. Does not include pin.	
P	515-4649	RIPPER-SCARIFIER, REAR	0
		Hydraulic, rear mounted ripper with three straight ripper shanks.	
		Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately.	
		RECOMMENDED FOR USE WITH: 336-1559 PUSH PLATE, COUNTERWEIGHT	
L	558-2400	RIPPER, SNOW WING READY	0
		FOR USE IN LANE 3 ONLY	
		Hydraulic, rear mounted ripper with three straight ripper shanks.	
		Includes the mount for the Caterpillar Mastless Snow Wing on the right side of the ripper backplate.	
		Can accommodate two additional ripper shanks, nine scarifier teeth, and the Caterpillar Mastless Snow wing which must be ordered separately.	

Blade lift accumulators shall be available, to reduce vertical impact damage.

Yes ☒ No ☐
Page # Bid Spec. P. 3

DRAWBAR AND CIRCLE

Circle shall be a single piece, rolled ring forging with raised wearing surface top and bottom

Yes ☒ No ☐
Page # Bid Spec. P. 2

Must be equipped with replaceable wear strips between circle and support shoes.

Yes ☒ No ☐
Page # Bid Spec. P. 2

Rear drawbar shall be equipped with slip clutch designed to protect the circle, drawbar, and moldboard from shock when end of blade encounters, hidden objects.

Yes ☒ No ☐
Page # Bid Spec. P. 3

Drawbar shall feature welded protective wear plates to prevent lift group contact with the primary drawbar structure.

Yes ☒ No ☐
Page # Bid Spec. P. 3

The circle shall be steel construction with 6 replaceable wear shoes.

Yes ☒ No ☐
Page # Bid Spec. P. 2

FRAME

Articulated type main frame.

Yes ☒ No ☐
Page # Bid Spec. P. 1

Articulation joint shall have mechanical locking device to prevent frame articulation while servicing or transporting machine.

Yes ☒ No ☐
Page # Bid Spec. P. 3

Shall be that of a flanged box section type frame that runs from the front bolster to the articulation joints.

Yes ☒ No ☐
Page # Bid Spec. P. 1

STEERING WHEEL

Fully hydraulic, 2-cylinder steering system, with front steering wheel angle not less than 50° left or right.

Yes ☒ No ☐
Page # Bid Spec. P. 1

TIRES

All **six** wheels shall be **10 in by 24 in size** multi-piece tire rims and shall provide mounting for **14.00 R24** tires.

Yes ☒ No ☐
Page # 140 Tire Section
→

Tires shall be Goodyear, Bridgestone/Firestone, or Michelin only, **14.00 x R24** 12PR Bias Tires.

Yes ☒ No ☐
Page # 140 Tire Section
→

BRAKES

Service brakes shall be multi-disc, oil-cooled and completely sealed.

Yes ☒ No ☐
Page # Bid Spec. P.1

OIL ANALYSIS

To be included at no cost of the duration of the warranty period selected at intervals recommended by the manufacturer's warranty and maintenance schedule.

Yes ☒ No ☐
Page #

WEIGHT (STANDARD OPERATING)

Base machine weight shall not be less than **42,325 lbs.** Weight shall include standard machine configuration, lubricants, coolants, full fuel tank, push block, transmission guard, rear ripper/scarifier, 14.0 R24 tires on multi-piece rims, and operator of **200lbs** This is factory specified operating weight only. No additional weights may be added for purpose of meeting these specifications.

Yes ☒ No ☐
Page # 4
Tech Specs P.3

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER
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TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**

All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC

L	515-5399	TIRES, 14.0R24 SOIL TRACTION MP 0
		Tire group received will be one of the tire groups listed below:
		- Bridgestone VKT 1* on 10" x 24" multi-piece rims.
		- Michelin XGLA2 1* on 10" x 24" multi-piece rims.
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER
L	515-5400	TIRES, 17.5R25 SOIL TRACTION MP 0
		Tire group received will be one of the tire groups listed below:
		- Bridgestone VKT 1* on 14" x 25" multi-piece rims.
		- Michelin XTLA 1* on 14" x 25" multi-piece rims.
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER
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TIRES, RIMS, AND WHEELS (CONT.)**APPLICATION SPECIFIC (Cont.)**

L	515-5404	TIRES, 14.0R24 SOIL TRACTION MP 0 Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	515-5405	TIRES, 17.5R25 SOIL TRACTION MP 0 Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

SHIPPING TIRES

L	448-5577	TIRES, 14.0 SHIPPING, MP 90 FOR USE IN LANE 3 ONLY Due to the height of the shipping tires, unloading will most likely require a crane to avoid damaging the bottom of the machine. Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer. ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	440-3433	TIRES, 17.5 SHIPPING, MP 274 FOR USE WITH LANE 3 ONLY Due to the height of the shipping tires, unloading will most likely require a crane to avoid damaging the bottom of the machine. Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	448-5584	TIRES, 14.0 SHIPPING, AWD, MP 69 FOR USE WITH LANE 3 ONLY Due to the height of the shipping tires, unloading will most likely require a crane to avoid damaging the bottom of the machine. Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer. ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	440-3434	TIRES, 17.5 SHIPPING, AWD, MP 83 FOR USE WITH LANE 3 ONLY Due to the height of the shipping tires, unloading will most likely require a crane to avoid damaging the bottom of the machine. Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER
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TIRES, RIMS, AND WHEELS (CONT.)

MAXAM

L	578-9458	TIRES 17.5R25 MA MS202 ** MP 0 FOR USE IN LANE 3 ONLY Maxam MS202 2* on 14- x 25- multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.* ONLY FOR USE WITH: 515-2449 140 13A MOTOR GRADER		
L	578-9460	TIRES 14.00R24 MA MS202 * MP 0 FOR USE IN LANE 3 ONLY Maxam MS202 2* on 14- x 25- multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.* ONLY FOR USE WITH: 515-2449 140 13A MOTOR GRADER		
L	578-9462	TIRES 17.5R25 MA MS202 ** MP 0 FOR USE IN LANE 3 ONLY Maxam MS202 2* on 14- x 25- multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.** ONLY FOR USE WITH: 515-8361 140 13A AWD MOTOR GRADER		
L	578-9463	TIRES 14.00R24 MA MS202 * MP 0 FOR USE IN LANE 3 ONLY Maxam MS202 2* on 14- x 25- multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.** ONLY FOR USE WITH: 515-8361 140 13A AWD MOTOR GRADER		

MICHELIN

L	252-0701	TIRES, 14.0R24 MX XSNO + * G2 MP. 1,282 FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	252-0771	TIRES, 17.5R25 MX XTLA * L2 MP 1,371 Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	249-7845	TIRES, 14.0R24 MX XSNO + * G2 MP. 1,261 Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	252-0679	TIRES, 14.0R24 MX XGLA2 * G2 MP 1,069 Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	252-0777	TIRES, 17.5R25 MX XSNO + * G2 MP. 1,093 Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER
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TIRES, RIMS, AND WHEELS (CONT.)

MICHELIN (Cont.)

L	252-0681	TIRES, 14.0R24 MX XGLA2 * G2 MP 1,048 Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	252-0773	TIRES, 17.5R25 MX XTLA * L2 MP 268 Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	252-0779	TIRES, 17.5R25 MX XSNO+ * G2 MP 903 Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

BRIDGESTONE

L	252-0714	TIRES, 14.0 R24 BS VKT * G2 MP 1,540 Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	252-0775	TIRES, 17.5R25 BS VKT * D2A MP 1,810 Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	586-5268	TIRES, 14.00R24 BS VKT ***E-2MP 0 FOR USE IN LANE 3 ONLY 6 X Bridgestone VKT 3* on 9- X 24- Single Piece Rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING 3650 kg (8045 LBS). ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	586-5273	TIRES, 14.00R24 BS VKT ***E-2MP 0 FOR USE IN LANE 3 ONLY. 6 X Bridgestone VKT 3* on 10- X 24- Multipiece Rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING 3650 kg (8045 LBS). ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER		
L	249-7841	TIRES, 17.5R25 BS VKT * D2A MP 1,620 Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER		
L	252-0716	TIRES, 14.0R24 BS VKT * G2 MP 1,519 Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER
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TIRES, RIMS, AND WHEELS (CONT.)**GOODYEAR**

L	310-7326	TIRE, 17.5R25 GY RL2+ 6S 1*MP 1,200 Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	310-7327	TIRES, GY17.5R25* COMBO MP 1,200 Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

FLUIDS**COOLANT ANTIFREEZE**

P	522-6654	COOLANT (-40C) 0 Standard engine coolant		
P	522-6655	COOLANT (-50C) 0 Engine coolant recommended for extreme low temperatures		

CAB ANTIFREEZE

	0P-1939	ANTIFREEZE WINDSHIELD WASHER 0		
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FUEL ANTIFREEZE

	0P-3978	FUEL ANTIFREEZE, -25C (-13F) 0 Provides fuel (diesel) antifreeze protection down to -25C (-13F)		
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DOCUMENTATION**LANGUAGE SELECTION**

NOTE: This part number will provide the language for Messenger and Statement of Conformity.

L	386-1254	LANGUAGE, ENGLISH 0		
L	386-5928	LANGUAGE, SPANISH 0		

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO Pictograms
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

P	516-2552	DECALS, ENGLISH (US) 0 Provides decals as required by ANSI.		
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140

MOTOR GRADER



Engine Power
Operating Weight

186 kW (250 hp)
19 198 kg (42,325 lb)

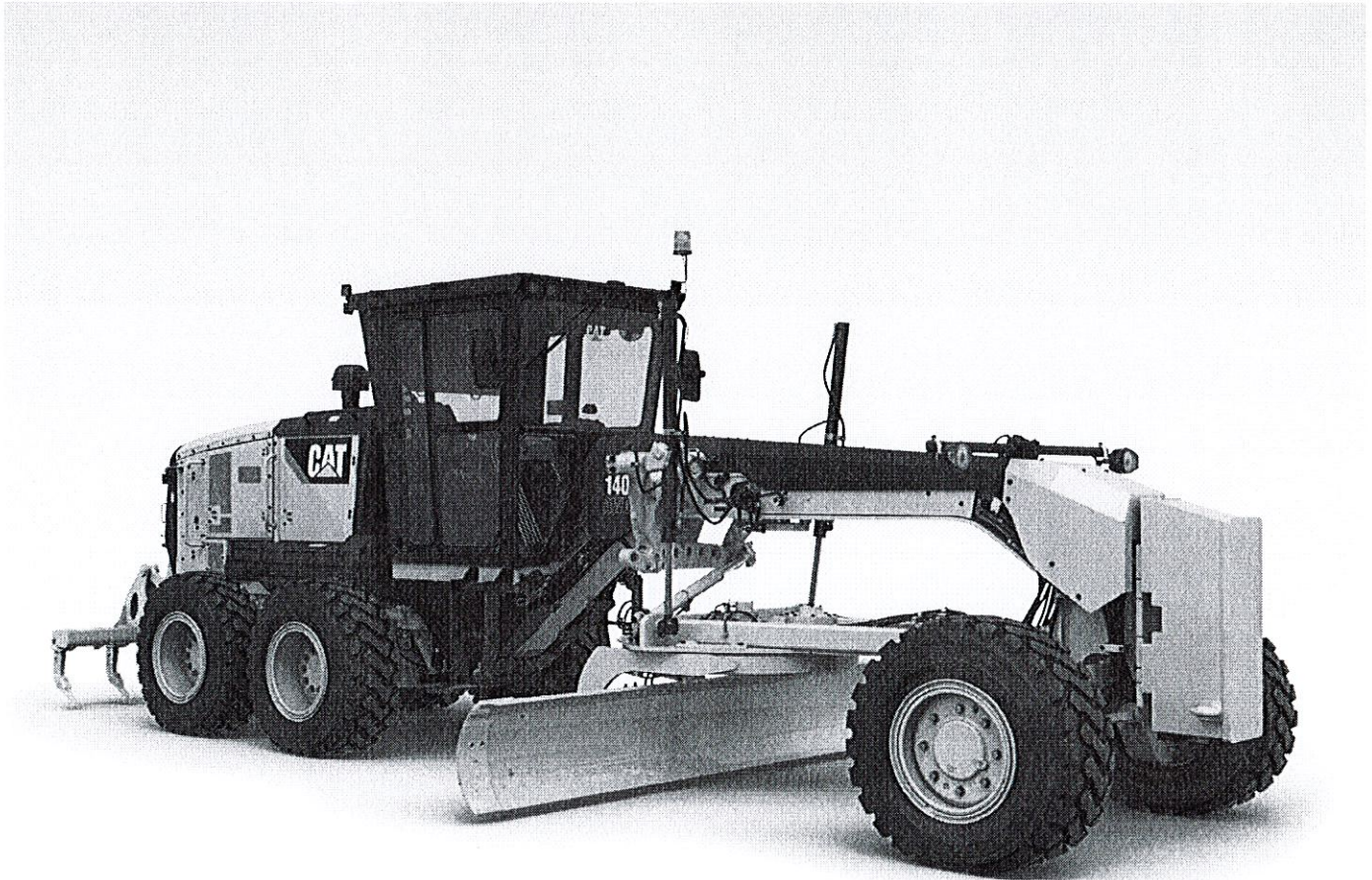
Cat® C9.3 Engine meets U.S. EPA Tier 4 Final and EU Stage IV emission standards.

CAT®

THE NEW CAT[®] 140

GRADING GREATER LENGTHS

THE CAT[®] 140 uses Caterpillar's 45 years of refined steering wheel and lever controls experience for more precise grading. With a range of technology options, you can improve grading accuracy and save on materials. With lowered maintenance intervals, the 140 Motor Grader sets the pace for low operating costs, while maintaining productivity and efficiency.



GET TO BETTER GRADE

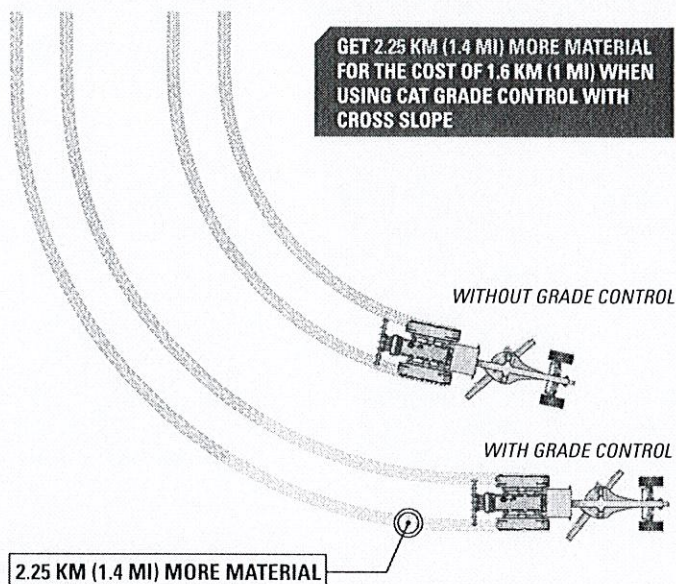
The new Cat 140 Motor Grader combines steering wheel and lever controls and Cat GRADE technology for high performance.

- + SPEND LESS TIME AND MONEY ON REGULAR MAINTENANCE
- + UPDATED CAB FOR MAXIMUM COMFORT
- + FACTORY INTEGRATED GRADE TECHNOLOGY OPTIONS



SAVE MORE MATERIAL.

Use 40% less material with Cat Grade Control with Cross Slope.



SCENARIO:

1559 M³/KM (2,039 YD³/MI) MOVED WITH NON-GRADE CONTROL – 924 M³/KM (1,208 YD³/MI) MOVED WITH GRADE CONTROL = 635 M³/KM (831 YD³/MI) MATERIAL SAVED

UP TO 20% LOWER MAINTENANCE COSTS¹

Extend typical maintenance intervals with the new filtration technology and grouped filters for easy access.

CAB DESIGNED FOR MAXIMUM COMFORT

Be productive and comfortable with steering wheel and lever controls and the ergonomically adjustable console and seat.

SAVE UP TO 40% IN MATERIAL²

Use less material with scalable Cat GRADE technology solutions to increase accuracy and consistency.

¹ Compared to 140M3

² Compared to not using Cat GRADE control



TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT CAT TECHNOLOGY

Cat LINK telematics technology helps take the complexity out of managing your job sites – by gathering data generated by your equipment, materials, and people – and serving it up to you in customizable formats.



CAT CONNECT

Cat Connect technologies give you the edge you need to improve machine and operator efficiency while working safer.

PRODUCT LINK™

Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.

VISIONLINK®

Access information anytime, anywhere with VisionLink® – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your job site. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business, without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting or both.

OPTIONAL GRADE TECHNOLOGY



CROSS SLOPE

Cat GRADE with Cross Slope is an integrated system that enables you to achieve grade faster and more accurately by automating the cross slope of the blade, allowing you to get more done in the same amount of time.



CROSS SLOPE INDICATE

Cat GRADE with Cross Slope Indicate shows cross slope information on the integrated machine display. Cross Slope Indicate improves grading efficiency by providing real-time cross slope to you without the added expense of equipment to automate blade functions.



DIGITAL BLADE SLOPE METER

View blade slope on the integrated machine display with the Digital Blade Slope Meter. Reduce the need for manual grade checking to keep you and your worksite safer.



ADDITIONAL OPTIONS

Cat GRADE Attachment Ready Option (ARO) integrates easily with Cat Grade and other grade control systems to help you get the most out of your motor grader. Stable Blade helps improve your finished surface quality by reducing machine bounce.

USE UP TO 40% LESS MATERIAL

WITH CAT GRADE TECHNOLOGY





LOWER MAINTENANCE COSTS
UP TO 20%

NEXT GENERATION FILTERS

Filters are grouped together for preventative maintenance and easy access. With less waste, the filters are more environmentally friendly.

LONGER SERVICE INTERVALS

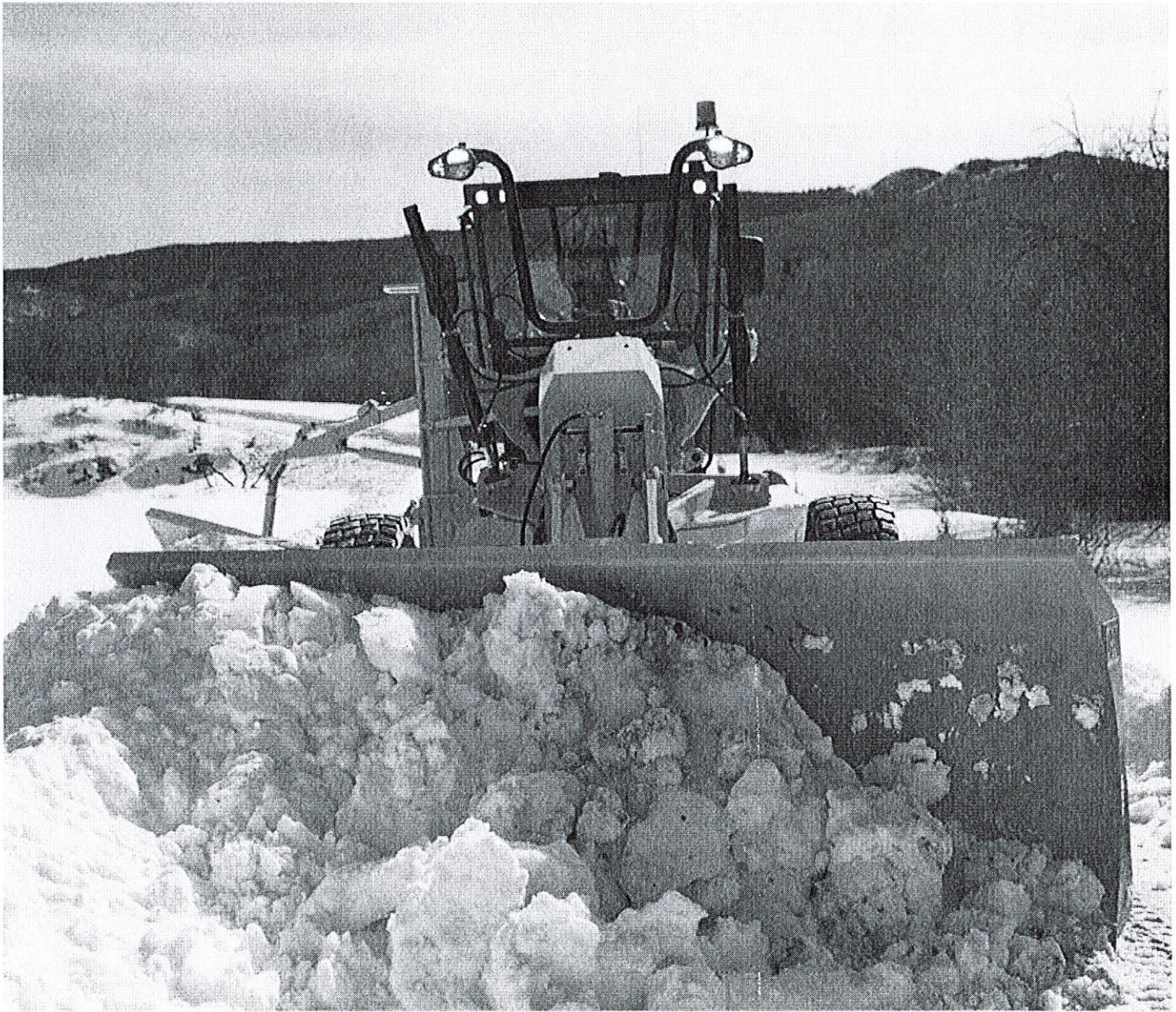
Maintenance intervals are synchronized to reduce downtime. Instead of changing filters every 500 hours, the new filters are changed at 1,000 hours.

GROUND LEVEL FUEL FILL

Ground level fueling reduces the need to climb onto the machine. With a large fuel capacity of 378.5 L (100 gal) and ECO mode engaged, you can work longer without the need to refuel.

FEEL THE CONTROL AND POWER WITH THE ALL-WHEEL DRIVE OPTION

Providing maximum power of 201 kW (270 hp) and full power turns, the all-wheel drive option helps you get the best footing.



MAXIMUM TRACTION WITH ALL-WHEEL DRIVE

The all-wheel drive (AWD) option assists with traction and maneuvering the machine. The increased power with all-wheel drive handles rough terrain with extra traction for better productivity.

FAMILIAR CONTROLS

Distances between the steering wheel and levers are optimized to help reduce effort and strain on the operator.

ISO-CERTIFIED ROPS

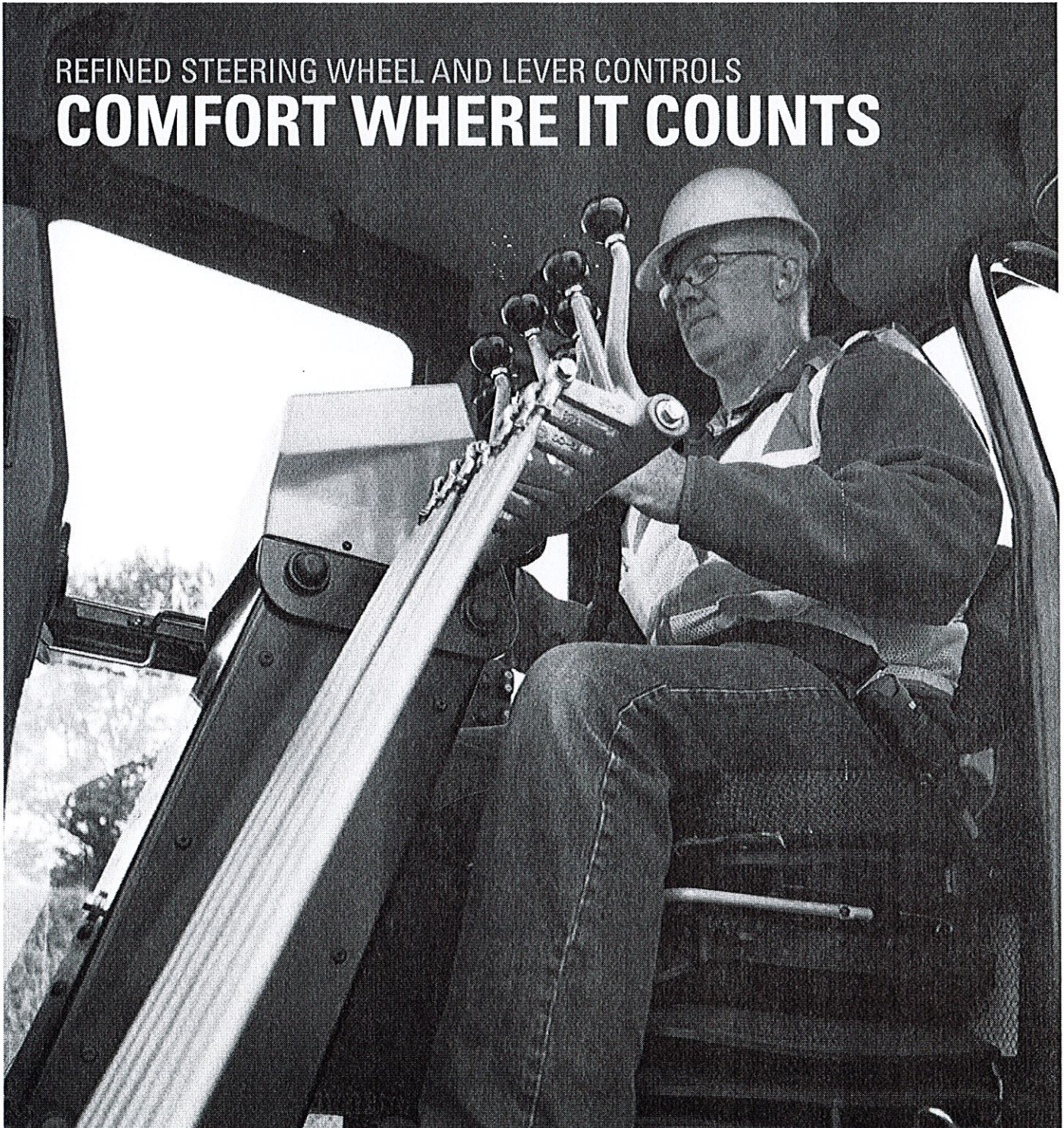
The ISO-certified ROPS cab is sound suppressed and sealed. Vents provide heating and cooling.

COMFORTABLE CAB

Optional air suspension seat lets you adjust to your ideal comfort level. Convenience features include radio, cup and bottle holders, and storage.

REFINED STEERING WHEEL AND LEVER CONTROLS

COMFORT WHERE IT COUNTS





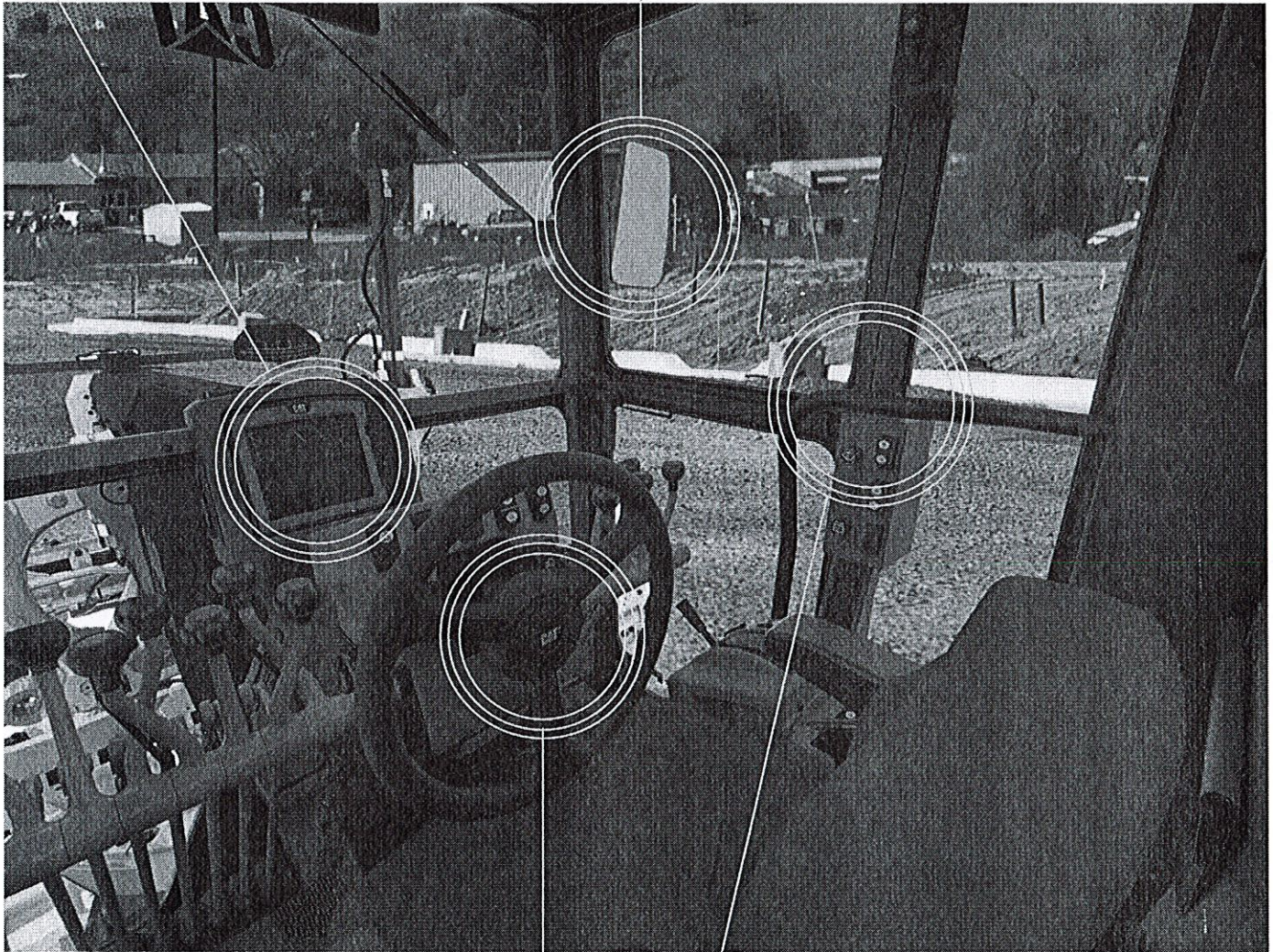
CONVENIENT SETTINGS

Get all the settings information that you need, including integrated technology options on the information display screen.



ENHANCED VISIBILITY

With the larger windows, rear and sideview mirrors, you can see the job site all around you. Rearview camera option offers a wide view of the rear of the machine to get the best visibility.



STOP SAFELY

If the engine should unexpectedly stall, you can count on the secondary steering system to stop safely. When the main pump pressure drops, the secondary steering system will turn on automatically.



EASY ON AND OFF

Work safely with three points of contact when entering and exiting the machine with strategically placed walkways and grab rails.

The 140 Motor Grader is equipped with the six-cylinder Cat C9.3 engine for power and reliability. The 140 is optimized for power in all gears to get the job done.

PROVEN POWER AND RELIABILITY ELEVATE YOUR PERFORMANCE



REDUCE COOLING SYSTEM CLEANING

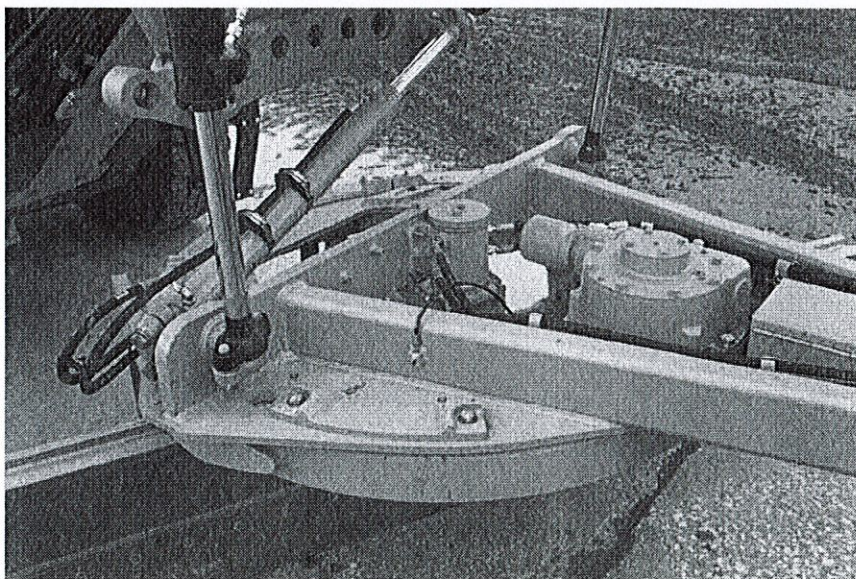
Adding the reversing fan option helps reduce maintenance costs. The fan helps prevent material from building up and blocking air flow by the rear door intake screen in high debris applications. The reversing fan runs automatically.



Keep your circle moldboard tight for grade precision throughout the motor grader's life. Durable structures with drawbar circle moldboard adjustments save you service time with replaceable wear inserts with standard or top adjust options.

TOP ADJUST CIRCLE

- + EASY ACCESS
- + MAXIMUM TIGHTNESS
- + REMOVABLE ACCESS PLATES



SEE YOUR INVESTMENT GO FURTHER **DESIGNED TO LAST**

MAXIMIZE COMPONENT LIFE

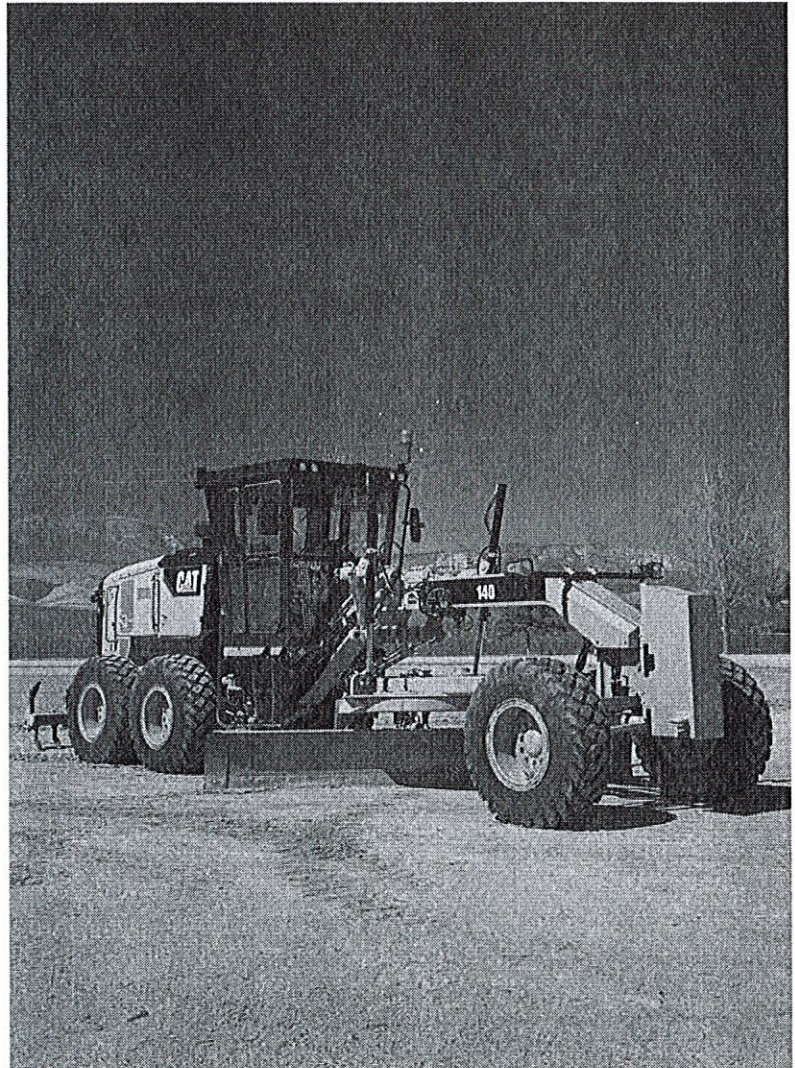
Reduce daily greasing requirements with your machine's circle saver. The grease fitting is easy to access and maintain. Always keep your circle drive pinion greased with the Cat Circle Saver for maximum life.

DIMINISH DAMAGE

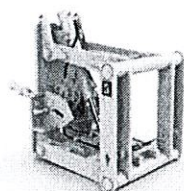
Keep your machine running smoothly with optional guarding in demanding applications. Guards defend against potential damage while running the machine for your transmission, filter, front axles, and hydraulic pumps.

PRESERVE YOUR MACHINE

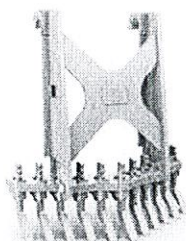
Protect your pinion drive and circle teeth from damage with the circle drive slip clutch. The standard slip clutch minimizes damage to your circle drive.



MOVE MORE WITH CAT ATTACHMENTS



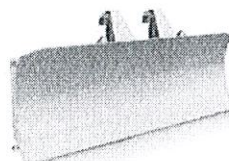
**BALDERSON™
LIFT GROUP**



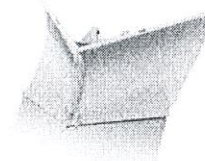
SCARIFIER



MASTLESS SNOW WING



STRAIGHT BLADE



BALDERSON™ V-PLOW

ENHANCE YOUR PRODUCTIVITY

From mastless and mastless snow wings to plows, you can easily expand the versatility of your machine by utilizing a variety of Cat attachments. Each one is designed to fit your needs for improved performance, safety, and stability.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat C9.3	
Net Power – ISO 9249/SAE J1349	186 kW	250 hp
Net Power – EEC 80/1269	186 kW	250 hp
Net Power All Wheel Drive (AWD)	201 kW	270 hp
Bore	115 mm	4.5 in
Displacement	9.3 L	567.5 in ³
Stroke	149 mm	5.9 in
Engine RPM	2,000	
Torque Rise – ISO 9294	44%	
Maximum Torque – ISO 9294	1245 N-m	918 lb-ft
Top Speed Forward	48.4 km/h	30.1 mph
Top Speed Reverse	37.4 km/h	23.2 mph
Turning Radius, Outside Front Tires	7.6 m	24 ft 11 in
WEIGHT		
Weight*	19 198 kg	42,325 lb
All-Wheel Drive (AWD) Weight*	20 236 kg	44,613 lb
*Typically equipped operating weight is calculated with full fuel tank, coolant, lubricants, operator, push block, transmission guard, rear ripper/scarifier, 14.0R24 tires on multi-piece rims, and other equipment.		
SERVICE REFILL CAPACITIES		
Fuel Tank	378 L	100 gal
Circle Drive	7 L	1.8 gal
Engine Crankcase	30 L	7.9 gal
Cooling System	57 L	15 gal
Hydraulic System	55 L	14.5 gal
DEF Tank	12.5 L	3.3 gal
Front Wheel Spindle Bearing (each)	0.5 L	0.13 gal

BLADE RANGE		
Circle Center Shift		
Right	728 mm	28.6 in
Left	752 mm	29.6 in
Moldboard Side Shift		
Right	512 mm	20.1 in
Left	663 mm	26.1 in
Blade Tip Range		
Forward		40°
Backward		5°
Maximum Shoulder Reach Outside of Tires		
Right	1928 mm	75.9 in
Left	1764 mm	69.4 in
Maximum Depth of Cut	735 mm	28.9 in
Maximum Lift Above Ground	480 mm	18.9 in
MOLDBOARD		
Width	3.7 m	12 ft
Height	594 mm	23.4 in
End Bit	152 mm	6 in
Cutting Edge	152 mm	6 in
Arc Radius	413 mm	16.3 in
Throat Clearance	124 mm	4.9 in
DIMENSIONS		
Length of Machine*	10 100 mm	397.6 in
Maximum Height	3354 mm	148.8 in
Width	2480 mm	97.6 in
Basic Blade Width	3556 mm	140 in
*Typically equipped with push block and ripper.		

CAB FEATURES

FEATURE	DESCRIPTION	BASE	COMFORT PLUS
ROPS	Sound Suppression	●	●
	Open Canopy	○	○
Seat Suspension	Mechanical	●	○
	Air	x	●
HVAC	Heating, Ventilation, and Air Conditioning	●	●
	Defrost Fans	○	●
Wipers	Front Wipers	●	●
	Rear Wiper	○	●
Lighting	Halogen Bulbs	●	●
	LED Bulbs	○	○

● - standard ○ - optional x - not available

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

ENGINE	STANDARD	OPTIONAL
Cat C9.3 engine	•	
Reversing fan		•
ECO mode	•	
All-wheel drive (AWD)		•
50° C (122° F) ambient capacity	•	
Engine idle shutdown timer	•	
Differential lock	•	
140 CAB	STANDARD	OPTIONAL
ROPS, standard sound suppression	•	
Mechanical suspension seat	•	
Air suspension adjustable seat		•
Open ROPS cab		•
Information display screen	•	
Adjustable control console	•	
Entertainment Radio Ready	•	
Halogen lighting	•	
LED lighting		•
USB/auxiliary radio		•
CAT CONNECT TECHNOLOGY	STANDARD	OPTIONAL
Product Link	•	
Cat GRADE with Digital Blade Slope Meter		•
Cat GRADE with Cross Slope Indicate		•
Cat GRADE with Cross Slope		•
Cat GRADE with Attachment Ready Option (ARO)		•
Stable Blade		•
Remote Services		•

DRAWBAR CIRCLE MOLDBOARD	STANDARD	OPTIONAL
Standard drawbar circle moldboard	•	
Top adjust drawbar circle moldboard		•
Circle drive slip clutch	•	
Circle saver		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Rearview mirror	•	
Sideview mirror	•	
Signaling/warning horn	•	
Secondary steering system	•	
Rearview camera		•
Hydraulic brakes	•	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Ground level fuel fill	•	
Grouped location for engine oil and fuel filters	•	
Extended Life Coolant	•	
ATTACHMENTS	STANDARD	OPTIONAL
Counterweight		•
Push block		•
Front lift group		•
Ripper		•
Scarifier		•
Auxiliary hydraulic lines		•
V-plow		•
One-way plow		•

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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www.cat.com www.caterpillar.com

AEXQ2468
Build Number: 13A





Cat[®] 140

Motor Grader

The Cat[®] 140 Motor Grader combines technology and lever controls for high performance. Integrated technology, such as Cat GRADE with Cross Slope and Stable Blade options, ensures optimal grade for any project. The new cab offers increased comfort and ergonomically designed, adjustable control console. Reduce up to 10 percent fuel consumption by using ECO Mode.

Increased Machine Performance with Lever Controls

- Prefer a motor grader with steering wheel and levers? The 140 uses Caterpillar's 45 years of lever and steering wheel controls design experience to provide you with the control option you prefer.
- Save up to 40 percent in material with the Cat GRADE Cross Slope feature. Monitor Cross Slope information from the machine display.
- Optimized machine balance ensures maximum drawbar power to the ground.
- Don't let the snow stop you from working. The all-wheel drive (AWD) option assists with traction and maneuvering the machine.
- Each machine is equipped with the Cat C9.3 engine for power and reliability.
- Save up to 10 percent on fuel consumption with ECO Mode.
- For your fine grade applications, the hydraulic system provides multifunction capability of up to seven simultaneous functions for superior performance.
- Reduce risk of impact damage with the standard circle drive slip clutch. It protects your circle drive and teeth.

Optimal Operator Comfort

- Adjust to your ideal comfort with the air suspension seat with multiple ergonomic adjustments.
- The rear camera option enhances visibility along with a heated lens to prevent snow buildup.
- The high capacity Heating, Ventilation and Air Conditioning (HVAC) system dehumidifies and pressurizes the cab, circulates fresh air, seals out dust and keeps windows clear.
- Add the communications radio mount to connect with your operators from the cab.

Enhance Efficiency and Productivity with Integrated Cat Technology

- Reduce your dependence on manual grade checking by using the Digital Blade Slope Meter.
- Cat GRADE with Cross Slope Indicate option provides a real time readout of cross slope and can be scaled to Cat GRADE with Cross Slope for automatic blade movement.
- Cat GRADE Attachment Ready Option (ARO) ensures machine readiness for additional 2D/3D grade control technologies.
- Stable Blade senses blade bounce before the operator to reduce manual throttle use and site rework.
- Cat Production Measurement recommends gears and engine speed to improve fuel efficiency and maintain productivity. (Coming in 2019)
- Product Link[™] provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through the VisionLink[®] online interface, which helps you improve job site efficiency with lower operating costs.
- Remote Services eliminates the need for technicians to connect to Electronic Technician (ET) to flash software updates to the machine.

Maintenance

- Filters, such as hydraulic oil, engine air, and DEF filters, are grouped together for easy access and preventative maintenance.
- The new next generation filters offer up to 25 percent in reduced fluid and filter costs.
- Spend less time cleaning the cooling system with the reversing fan option, which reduces costs when cleaned once per week for more uptime.
- Maintain roads with the standard drawbar circle moldboard with hardened circle teeth for increased durability.
- For tight finish grading, consider the top adjust drawbar option for applications that require maximum accuracy. It offers up to 45 percent reduction in maintenance cost over the standard.



Cat® 140 Motor Grader

Safety

- Depend on your brakes with maximum stopping power on all four rear wheels.
- View your work space with the rear camera option. It offers a rear view of the machine to ensure the safety of you and those around you. The dedicated display can be always on to ensure a safe work environment.
- In the event of an engine issue, your operators can count on the secondary steering system to stop the machine safely. It turns on automatically if the main pump pressure drops.
- Ground level refueling requires no climbing on the machine to fill the fuel tank.
- Ensure three points of contact when entering and exiting the machine with strategically placed walkways and grab rails.
- Work past sundown using the LED light option for increased nighttime visibility.

Versatility

- Ripper and Scarifier options are available.
- Improve the balance of your machine with the counterweight and push block for increased performance and efficiency.
- For snow applications, straight blades or v-plows added to the front lift keep roads clear.
- Plow through snow with the mast-type or mast-less snow wing attachment.
- For more road coverage, add a moldboard extension to add 600 mm (24 in).

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
CAB			ENGINE		
Vinyl Seat	✓		C9.3	✓	
Air Suspension Adjustable Seat		✓	Reversing Fan		✓
Information Display Screen	✓		ECO Mode	✓	
High-resolution 254 mm (10 in) Touchscreen		✓	All-Wheel Drive (AWD)		✓
Canopy		✓	DRAWBAR CIRCLE MOLDBOARD		
Base Cab	✓		Standard Drawbar Circle Moldboard	✓	
Entertainment Radio Ready	✓		Top Adjust Drawbar Circle Moldboard		✓
Cab Plus		✓	Circle Drive Slip Clutch	✓	
Rear Wiper		✓	Circle Saver		✓
Communication Radio Mounting		✓	SAFETY		
Rear Window Screen		✓	Rearview Mirror	✓	
Defrost Fans		✓	Rearview Camera		✓
HVAC	✓		Hydraulic Brakes	✓	
ROPS, Standard Sound Suppression	✓		Cat Detect with Vision System		✓
Halogen Lighting	✓		Secondary Steering System	✓	
LED Lighting		✓	Signaling/Warning Horn	✓	
CAT CONNECT TECHNOLOGY			Side View Mirrors	✓	
Cat GRADE with Cross Slope		✓	VERSATILITY		
Cat GRADE Attachment Ready Option (ARO)		✓	Front Bolster	✓	
Cat GRADE with Cross Slope Indicate		✓	Counterweight		✓
Digital Blade Slope Meter		✓	Push Block		✓
Stable Blade		✓	Front Lift Group		✓
Cat GRADE with 3D		✓	Mast Type – Snow Wing		✓
Product Link	✓		Mast-Less – Snow Wing		✓
Remote Services		✓	Ripper/Scarifier		✓
			Auxiliary Hydraulic Lines		✓
			Moldboard Extension		✓
			Front Blade		✓

Cat® 140 Motor Grader

Engine

Engine Model	Cat C9.3	
Emissions	U.S. EPA Tier 4 Final/ EU Stage IV	
Net Power		
ISO 9249/SAE J1349	186 kW	250 hp
EEC 80/1269	186 kW	250 hp
Base Net Power (1 st Gear)	132 kW	177 hp
Engine RPM	2,000	
Displacement	9.3 L	567.5 in ³
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Torque Rise – ISO 9294	40%	
Maximum Torque – ISO 9294	1121 N·m	827 lb·ft
Number of Cylinders	6	
Standard Capacity	43° C	109° F

Machine Weight

Weight*	19 198 kg	42,325 lb
All-Wheel Drive (AWD) Weight	20 236 kg	44,613 lb

*Typically equipped with push block and ripper.

Dimensions

Length of Machine*	10 100 mm	397.6 in
Maximum Height	3354 mm	132 in
Width	2480 mm	97.6 in
Basic Blade Width	3556 mm	140 in

*Typically equipped with push block and ripper.

Moldboard

Blade Width	3.7 m	12 ft
End Bit	152 mm	6.0 in
Cutting Edge	152 mm	6.0 in
Arc Radius	413 mm	16.3 in
Throat Clearance	166 mm	6.5 in

Blade Range

Circle Center Shift		
Right	728 mm	28.6 in
Left	752 mm	29.6 in
Moldboard Side Shift		
Right	512 mm	20.1 in
Left	663 mm	26.1 in
Blade Tip Range		
Forward	40°	
Backward	5°	
Maximum Shoulder Reach Outside of Tires		
Right	1928 mm	75.9 in
Left	1764 mm	69.4 in
Maximum Depth of Cut	735 mm	28.9 in
Maximum Lift Above Ground	480 mm	18.9 in

Service Refill

Fuel Tank	378 L	100 gal
Circle Drive	7 L	1.8 gal
Engine Crankcase	30 L	7.9 gal
Cooling System	57 L	15 gal
Hydraulic System	55 L	14.5 gal
DEF Tank	12.5 L	3.3 gal
Front Wheel Spindle Bearing (each)	0.5 L	0.13 gal

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AEXQ2368-01 (06-2018)
Replaces AEXQ2368
Build Number: 13A
(North America)





140

Motor Grader

Technical Specifications

Engine

Engine Model	Cat® C9.3	
Net Power ISO 9249/SAE J1349	186 kW	250 hp
Net Power EEC 80/1269	186 kW	250 hp
Net Power All-Wheel Drive (AWD)	201 kW	270 hp
VHP Plus Range – Net	132-186 kW	177-250 hp
VHP Plus Range – Net (metric)		179-253 hp
AWD Range – Net	131-201 kW	176-270 hp
AWD Range – Net (metric)		179-273 hp
Bore	115 mm	4.5 in
Displacement	9.3 L	567.5 in ³
Stroke	149 mm	5.9 in
Engine rpm	2,000	
Number of Cylinders	6	
Torque Rise – ISO 9294	44%	
Maximum Torque – ISO 9294	1245 N·m	918 lb-ft
Maximum Torque (AWD On)	1350 N·m	996 lb-ft
Derating Altitude	3962 m	13,000 ft
Derating Altitude AWD	3505 m	11,500 ft
Standard – Fan Speed	1,400 rpm	
Maximum – Fan Speed	1,550 rpm	
Minimum – Fan Speed	500 rpm	
Ambient Capacity	50° C	122° F

- The 140 meets U.S. EPA Tier 4 Final emission standards.
- Net Power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Rated speed at 2,000 rpm.

140 Net Power

Gear	VHP Plus – kW (hp)	AWD Off – kW (hp)	AWD On – kW (hp)
Forward			
1st	132 (177)	139 (186)	147 (197)
2nd	140 (187)	147 (197)	162 (217)
3rd	147 (198)	154 (207)	166 (223)
4th	155 (208)	158 (212)	170 (228)
5th	159 (213)	166 (223)	186 (249)
6th	167 (224)	170 (228)	201 (270)
7th	183 (245)	186 (249)	201 (270)
8th	186 (250)	186 (249)	201 (270)
Reverse			
1st	132 (177)	131 (176)	131 (176)
2nd	140 (187)	139 (186)	139 (186)
3rd-6th	147 (198)	147 (197)	147 (197)

140 Motor Grader Specifications

Power Train

Forward/Reverse Gears	8 Forward/6 Reverse	
Transmission	Direct Drive Powershift	
High Idle Speed	2,150 rpm	
Low Idle Speed	800 rpm	
Air Cleaner	Dry	
Peak Torque at Minimum Fan	1138 N·m	839 lb-ft
Peak Torque at Minimum Fan AWD	1247 N·m	920 lb-ft

Tandems

Tandem Chain Pitch	50.8 mm	2 in
Height and Width	506 mm × 201 mm	20 in × 8 in
Oscillation Front Up	15°	
Oscillation Rear Up	22°	

Service Brakes

Type System	Dual Circuit Hydraulic	
Type Brake	Multiple Oil Disc	
Number of Brakes	4	
Number of Disc Assemblies (each)	6	
Size (outer diameter)	355 mm	14 in
Size (inner diameter)	255 mm	10 in
Lining Area Per Brake	5749 cm ²	891.1 in ²

Parking Brake

Type System	Hydraulic Actuated	
Type Brake	Multiple Oil Disc, Meets ISO 3450	
Secondary Brakes	Dual Circuit Control System, Applies Two Service Brakes	

Operating Specifications

Top Speed Forward	48.4 km/h	30.1 mph
Top Speed Reverse	37.4 km/h	23.2 mph
Turning Radius, Outside Front Tires	7.6 m	24 ft 11 in
Steering Range	50° Left and Right	
Articulation Angle	18° Left and Right	
Forward		
1st	4.2 km/h	2.6 mph
2nd	5.7 km/h	3.6 mph
3rd	8.3 km/h	5.2 mph
4th	11.4 km/h	7.1 mph
5th	17.8 km/h	11.0 mph
6th	24.2 km/h	15.0 mph
7th	33.3 km/h	20.7 mph
8th	48.4 km/h	30.1 mph
Reverse		
1st	3.2 km/h	2.0 mph
2nd	6.1 km/h	3.8 mph
3rd	8.8 km/h	5.5 mph
4th	13.7 km/h	8.5 mph
5th	25.7 km/h	16.0 mph
6th	37.4 km/h	23.2 mph

- Machine speed measured at 2,150 rpm with 14.00R24 radial tires, no slip.

140 Motor Grader Specifications

Weight – Tandem

Gross Vehicle Weight – Typically Equipped*		
Total	19 198 kg	42,325 lb
Front Axle	5088 kg	11,216 lb
Rear Axle	5088 kg	11,216 lb
Gross Vehicle Weight – Base		
Total	16 787 kg	37,009 lb
Front Axle	4430 kg	9,766 lb
Rear Axle	12 357 kg	27,242 lb
Gross Vehicle Weight – Maximum Tested		
Total	24 500 kg	54,013 lb
Front Axle	8820 kg	19,445 lb
Rear Axle	15 680 kg	34,568 lb

*Typically equipped operating weight is calculated with full fuel tank, coolant, lubricants, operator, push block, transmission guard, rear ripper/scarifier, 14.0R24 tires on multi-piece rims, and other equipment.

Major Component Weights

Base Machine	16 787 kg	37,009 lb
Canopy Open ROPS	–323 kg	–711 lb
All-Wheel Drive	873 kg	1,921 lb
Moldboard		
4267 mm × 610 mm × 22 mm (14 ft × 24 in × 7/8 in)	147 kg	323 lb
4267 mm × 686 mm × 25 mm (14 ft × 27 in × 1 in)	284 kg	625 lb
Guards		
Transmission	121 kg	266 lb
Front Fender	121 kg	266 lb
Blade Extension	113 kg	249 lb
Grader Bit	181 kg	400 lb
Mid-Mount Scarifier Package	917 kg	2,017 lb
Front Lift Group	680 kg	1,500 lb
Counterweight	427 kg	939 lb
Push Plate	895 kg	1,969 lb
Rear Ripper	1104 kg	2,429 lb
Front Scarifier	434 kg	956 lb

Weight – All-Wheel Drive (AWD)

Gross Vehicle Weight – Typically Equipped*		
Total	20 236 kg	44,613 lb
Front Axle	5859 kg	12,917 lb
Rear Axle	14 377 kg	31,696 lb
Gross Vehicle Weight – Base		
Total	17 825 kg	39,297 lb
Front Axle	5198 kg	11,460 lb
Rear Axle	12 627 kg	27,837 lb
Gross Vehicle Weight – Maximum Tested		
Total	24 500 kg	54,013 lb
Front Axle	8820 kg	19,445 lb
Rear Axle	15 680 kg	34,568 lb

Hydraulic System

Type	Closed – Center	
Type Circuit	Parallel	
Pump	Type – Variable Piston	
Output* – @ 1,800 rpm	24 192 kPa	3,509 psi
	0-171	0-45.2
	L/min	gal/min

*Depending on system requirements.

Service Refill Capacities

Fuel Tank	378 L	100 gal
Circle Drive	7 L	1.8 gal
Engine Crankcase	30 L	7.9 gal
Transmission and Differential	74 L	19.5 gal
Cooling System	57 L	15 gal
Hydraulic System	55 L	14.5 gal
DEF Tank	12.5 L	3.3 gal
Front Wheel Spindle Bearing (each)	0.5 L	0.13 gal
All-Wheel Drive (AWD) Gearbox	7 L	1.8 gal

140 Motor Grader Specifications

Drawbar Circle Moldboard

Range of Motion	Standard		Top Adjust	
Lift Cylinders	2		2	
Maximum Depth of Cut	735 mm	28.9 in	715 mm	28.1 in
Maximum Lift Above Ground	480 mm	18.9 in	480 mm	18.9 in
Throat Clearance	119 mm	4.7 in	166 mm	6.5 in
Circle Center Shift Cylinder				
Center Shift Right	728 mm	28.7 in	728 mm	28.7 in
Center Shift Left	752 mm	29.6 in	695 mm	27.4
Moldboard Side Shift Cylinder				
Side Shift Left	663 mm	26.1 in	661 mm	26 in
Side Shift Right	512 mm	20.2 in	515 mm	20.3 in
Blade Tip Cylinder				
Maximum Blade Tip Forward	40°		40°	
Maximum Blade Tip Backward	5°		5°	
Circle Drive	360° of Blade Rotation			
Link Bar	7 Positions to adjust the drawbar circle moldboard range of motion			
Drawbar Shoes	6 with replaceable wear strips			

Moldboard

	Standard		Option 1		Option 2	
Width	3.7 m	12 ft	4.3 mm	14 ft	4.3 mm	14 ft
Height	594 mm	23.4 in	635 mm	25 in	682 mm	26.9 in
End Bit	152 mm	6 in	152 mm	6 in	152 mm	6 in
Cutting Edge	152 mm	6 in	203 mm	8 in	203 mm	8 in
Are Radius	413 mm	16.3 in	413 mm	16.3 in	413 mm	16.3 in
Throat Clearance	124 mm	4.9 in	124 mm	4.9 in	89 mm	3.5 in

• 3.7 m (12 ft) moldboard is standard.

Circle

Sections	Rolled Ring Forging
Number of Teeth	64
Rotation	360°

140 Motor Grader Specifications

Maximum Shoulder Reach Outside of Tires

Blade	3.7 m (12 ft)		4.3 m (14 ft)	
Right	1928 mm	76 in	2233 mm	88 in
Left	1764 mm	69.4 in	2201 mm	86.7 in

- An additional 300 mm (11.8 in) of reach can be achieved to the right or left by changing the side shift mounting bracket on the 4.3 m (14 ft) blade.

Ripper

Ripping Depth Maximum	426 mm	16.8 in
Ripper Shank Holder	5	
Ripper Shank Holder Spacing	533 mm	21 in
Penetration Force	9440 kg	20,812 lb
Pryout Force	11 877 kg	26,184 lb
Pryout Force (All-Wheel Drive)	13 650 kg	30,093 lb
Machine Length Increase, Beam Raised	1031 mm	40.6 in

Scarifier

Front, V-Type: Working Width	1205 mm	47.4 in
Front, V-Type: 5 or 11 Tooth		
Working Width	1031 mm	40.6 in
Scarifying Depth, Maximum	467 mm	18.4 in
Scarifier Shank Holders	11	
Scarifier Shank Holder Spacing	116 mm	4.6 in
Rear		
Working Width	2133 mm	84 in
Scarifying Depth, Maximum	426 mm	16.8 in
Scarifier Shank Holders	9	
Scarifier Shank Holder Spacing	267 mm	10.5 in

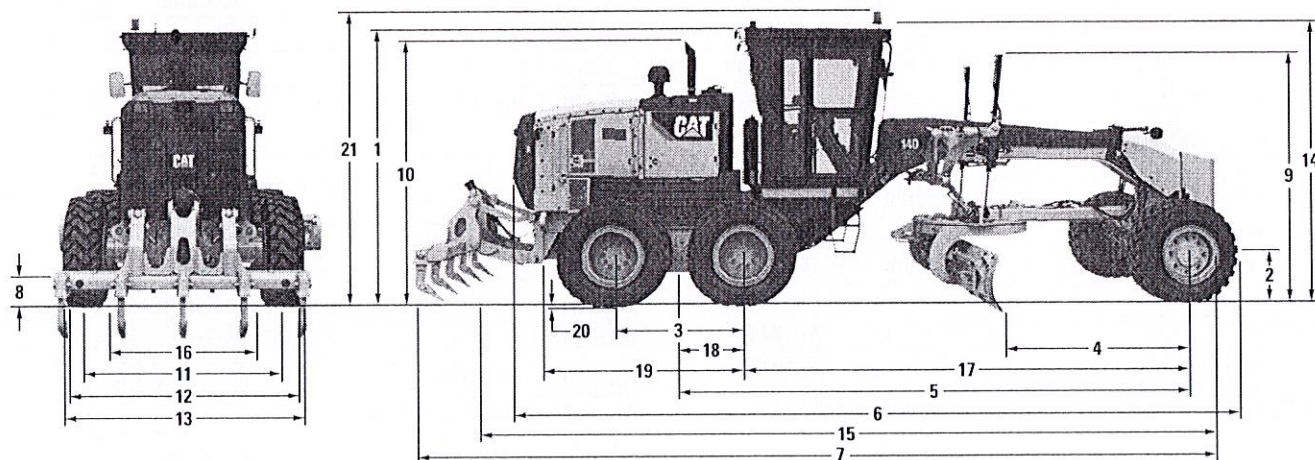
Electrical

Starting System Type	Direct Electric
Heavy Duty Battery	
CCA at 18°	1,125 amp
Volts	12V
Quantity	2
Extreme Duty Battery	
CCA at 18°	1,400 amp
Volts	12V
Quantity	2
Standard Alternator	115 amps at 24V
Heavy Duty Alternator	150 amps at 24V

140 Motor Grader Specifications

Dimensions

All dimensions are approximate.



Length of Machine*	10 100 mm	397.6 in
Maximum Height	3354 mm	148.8 in

*Typically equipped with push block and ripper.

Width	2480 mm	97.6 in
Basic Blade Width	3556 mm	140 in

1 Height – Top of Cab	3354 mm	132 in
2 Height – Front Axle Center	604 mm	23.7 in
3 Length – Between Tandem Axles	1497.5 mm	59 in
4 Length		
Front Axle to Moldboard (Non AWD)	2592 mm	102 in
Front AWD Axle to Moldboard (AWD)	2557 mm	100.7 in
5 Length		
Front Axle to Mid Tandem (Non AWD)	6169 mm	242.9 in
Front AWD Axle to Mid Tandem (AWD)	6134 mm	241.5 in
6 Length		
Front Tire to Rear of Machine (Non AWD)	8897 mm	350.3 in
Front Tire to Rear of Machine (AWD)	8862 mm	348.9 in
7 Length – Push Plate to Ripper	10 100 mm	397.6 in
8 Ground Clearance at Rear Axle	337 mm	13.3 in
9 Height to Top of Cylinders	3043 mm	119.8 in

10 Height to Exhaust Stack	3275 mm	128.9 in
11 Width – Tire Center Lines	2110 mm	83.1 in
12 Width – Outside Rear Tires	2464 mm	97 in
13 Width		
Outside Front Tires (Non AWD)	2480 mm	97.6 in
Outside Front Tires (AWD)	2594 mm	102.1 in
14 Maximum Height – with Attachments (Beacon in Shipment Position)	3413 mm	134.4 in
15 Length – Push Plate to Raised Ripper	9778 mm	385 in
16 Width – Inside Rear Tires	1711 mm	67.4 in
17 Length		
Front Axle to Articulation Hitch (Non AWD)	5325 mm	209.6 in
Front Axle to Articulation Hitch (AWD)	5290 mm	208.3 in
18 Length Rear Axle to Articulation Hitch	844 mm	33.2 in
19 Length – Rear Axle to Rear of Frame	1705 mm	67.1 in
20 Height – Tire Deflection at Performance Weight	65 mm	2.6 in
21 Maximum Height – with Attachments (Beacon in Operating Position)	3780 mm	149 in

140 Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
ENGINE		
Cat C9.3 engine	✓	
Tier 4 Final diesel engine	✓	
Snow precleaner		✓
ECO mode	✓	
Extreme duty starter		✓
50° C (122° F) ambient capacity	✓	
Reversing fan		✓
All-Wheel Drive (AWD)		✓
Differential lock/unlock	✓	
Engine idle shutdown timer	✓	
Transmission, autoshift		✓
MOLDBOARD		
Standard drawbar circle moldboard	✓	
Circle drive slip clutch	✓	
Top adjust drawbar circle moldboard		✓
Circle saver		✓
ELECTRICAL		
Sealed alternator	✓	
Reversing lights	✓	
Breaker panel	✓	
1,125 CCA heavy duty batteries	✓	
1,400 CCA extreme duty batteries		✓
Electric starter	✓	

	Standard	Optional
CAB		
Vinyl seat	✓	
ROPS, standard sound suppression	✓	
Air suspension adjustable seat		✓
Information display screen	✓	
Open ROPS cab		✓
Heating, ventilation, and air conditioning (HVAC) system	✓	
Defrost fans		✓
Halogen lighting	✓	
Cup and bottle holders	✓	
Implement lockout		✓
Adjustable control console	✓	
Interior lights	✓	
LED lighting		✓
Entertainment Radio Ready	✓	
Coat hook	✓	
USB/auxiliary radio		✓
Steering wheel	✓	
Communication radio mounting		✓
Lever controls	✓	
Heated mirrors		✓
Electric throttle control	✓	
Front windshield wiper	✓	
Rear wiper		✓
Rear window screen		✓
Cab storage	✓	

(continued on next page)

140 Standard and Optional Equipment

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
SAFETY AND SECURITY			GUARDS		
Parking brake	✓		Front fenders for All-Wheel Drive		✓
Back up alarm	✓		Rear fenders		✓
Signaling/warning horn	✓		Front axle guard for All-Wheel Drive		✓
Warning beacon		✓	Transmission		✓
Rearview mirror	✓		Cover, under cab platform		✓
Rearview camera		✓	ATTACHMENTS		
Hydraulic brakes	✓		Counterweight		✓
Secondary steering system	✓		Push block		✓
Side view mirrors	✓		Front lift group		✓
Strategically placed walkways and grab rails	✓		Ripper		✓
SERVICE AND MAINTENANCE			Scarifier		✓
Ground level fuel fill	✓		Auxiliary hydraulic lines		✓
Grouped location for engine oil and fuel filters	✓		V-plow		✓
Extended Life Coolant	✓		One-way plow		✓
Radiator, cleanout access	✓				
CAT CONNECT TECHNOLOGY					
Cat GRADE with Cross Slope		✓			
Cat GRADE with Cross Slope Indicate		✓			
Digital Blade Slope Meter		✓			
Cat GRADE Attachment Ready Option (ARO)		✓			
Product Link™	✓				
Stable blade		✓			
Remote services		✓			

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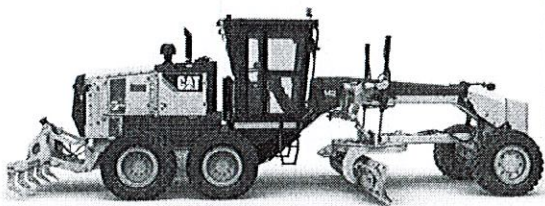
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AEXQ2467 (09-2018)
Build Number: 13A
(North America)





140

Motor Grader

Technical Specifications

Engine

Engine Model	Cat® C9.3	
Net Power ISO 9249/SAE J1349	186 kW	250 hp
Net Power EEC 80/1269	186 kW	250 hp
Net Power All-Wheel Drive (AWD)	201 kW	270 hp
VHP Plus Range – Net	132-186 kW	177-250 hp
VHP Plus Range – Net (metric)		179-253 hp
AWD Range – Net	131-201 kW	176-270 hp
AWD Range – Net (metric)		179-273 hp
Bore	115 mm	4.5 in
Displacement	9.3 L	567.5 in ³
Stroke	149 mm	5.9 in
Engine rpm	2,000	
Number of Cylinders	6	
Torque Rise – ISO 9294	44%	
Maximum Torque – ISO 9294	1245 N·m	918 lb-ft
Maximum Torque (AWD On)	1350 N·m	996 lb-ft
Derating Altitude	3962 m	13,000 ft
Derating Altitude AWD	3505 m	11,500 ft
Standard – Fan Speed	1,400 rpm	
Maximum – Fan Speed	1,550 rpm	
Minimum – Fan Speed	500 rpm	
Ambient Capacity	50° C	122° F

- The 140 meets U.S. EPA Tier 4 Final emission standards.
- Net Power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Rated speed at 2,000 rpm.

140 Net Power

Gear	VHP Plus – kW (hp)	AWD Off – kW (hp)	AWD On – kW (hp)
Forward			
1st	132 (177)	139 (186)	147 (197)
2nd	140 (187)	147 (197)	162 (217)
3rd	147 (198)	154 (207)	166 (223)
4th	155 (208)	158 (212)	170 (228)
5th	159 (213)	166 (223)	186 (249)
6th	167 (224)	170 (228)	201 (270)
7th	183 (245)	186 (249)	201 (270)
8th	186 (250)	186 (249)	201 (270)
Reverse			
1st	132 (177)	131 (176)	131 (176)
2nd	140 (187)	139 (186)	139 (186)
3rd-6th	147 (198)	147 (197)	147 (197)

140 Motor Grader Specifications

Power Train

Forward/Reverse Gears	8 Forward/6 Reverse	
Transmission	Direct Drive Powershift	
High Idle Speed	2,150 rpm	
Low Idle Speed	800 rpm	
Air Cleaner	Dry	
Peak Torque at Minimum Fan	1138 N·m	839 lb-ft
Peak Torque at Minimum Fan AWD	1247 N·m	920 lb-ft

Tandems

Tandem Chain Pitch	50.8 mm	2 in
Height and Width	506 mm × 201 mm	20 in × 8 in
Oscillation Front Up	15°	
Oscillation Rear Up	22°	

Service Brakes

Type System	Dual Circuit Hydraulic	
Type Brake	Multiple Oil Disc	
Number of Brakes	4	
Number of Disc Assemblies (each)	6	
Size (outer diameter)	355 mm	14 in
Size (inner diameter)	255 mm	10 in
Lining Area Per Brake	5749 cm ²	891.1 in ²

Parking Brake

Type System	Hydraulic Actuated	
Type Brake	Multiple Oil Disc, Meets ISO 3450	
Secondary Brakes	Dual Circuit Control System, Applies Two Service Brakes	

Operating Specifications

Top Speed Forward	48.4 km/h	30.1 mph
Top Speed Reverse	37.4 km/h	23.2 mph
Turning Radius, Outside Front Tires	7.6 m	24 ft 11 in
Steering Range	50° Left and Right	
Articulation Angle	18° Left and Right	
Forward		
1st	4.2 km/h	2.6 mph
2nd	5.7 km/h	3.6 mph
3rd	8.3 km/h	5.2 mph
4th	11.4 km/h	7.1 mph
5th	17.8 km/h	11.0 mph
6th	24.2 km/h	15.0 mph
7th	33.3 km/h	20.7 mph
8th	48.4 km/h	30.1 mph
Reverse		
1st	3.2 km/h	2.0 mph
2nd	6.1 km/h	3.8 mph
3rd	8.8 km/h	5.5 mph
4th	13.7 km/h	8.5 mph
5th	25.7 km/h	16.0 mph
6th	37.4 km/h	23.2 mph

- Machine speed measured at 2,150 rpm with 14.00R24 radial tires, no slip.

140 Motor Grader Specifications

Weight – Tandem

Gross Vehicle Weight – Typically Equipped*		
Total	19 198 kg	42,325 lb
Front Axle	5088 kg	11,216 lb
Rear Axle	5088 kg	11,216 lb
Gross Vehicle Weight – Base		
Total	16 787 kg	37,009 lb
Front Axle	4430 kg	9,766 lb
Rear Axle	12 357 kg	27,242 lb
Gross Vehicle Weight – Maximum Tested		
Total	24 500 kg	54,013 lb
Front Axle	8820 kg	19,445 lb
Rear Axle	15 680 kg	34,568 lb

*Typically equipped operating weight is calculated with full fuel tank, coolant, lubricants, operator, push block, transmission guard, rear ripper/scarifier, 14.0R24 tires on multi-piece rims, and other equipment.

Major Component Weights

Base Machine	16 787 kg	37,009 lb
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All-Wheel Drive	873 kg	1,921 lb
Moldboard		
4267 mm × 610 mm × 22 mm (14 ft × 24 in × 7/8 in)	147 kg	323 lb
4267 mm × 686 mm × 25 mm (14 ft × 27 in × 1 in)	284 kg	625 lb
Guards		
Transmission	121 kg	266 lb
Front Fender	121 kg	266 lb
Blade Extension	113 kg	249 lb
Grader Bit	181 kg	400 lb
Mid-Mount Scarifier Package	917 kg	2,017 lb
Front Lift Group	680 kg	1,500 lb
Counterweight	427 kg	939 lb
Push Plate	895 kg	1,969 lb
Rear Ripper	1104 kg	2,429 lb
Front Scarifier	434 kg	956 lb

Weight – All-Wheel Drive (AWD)

Gross Vehicle Weight – Typically Equipped*		
Total	20 236 kg	44,613 lb
Front Axle	5859 kg	12,917 lb
Rear Axle	14 377 kg	31,696 lb
Gross Vehicle Weight – Base		
Total	17 825 kg	39,297 lb
Front Axle	5198 kg	11,460 lb
Rear Axle	12 627 kg	27,837 lb
Gross Vehicle Weight – Maximum Tested		
Total	24 500 kg	54,013 lb
Front Axle	8820 kg	19,445 lb
Rear Axle	15 680 kg	34,568 lb

Hydraulic System

Type	Closed – Center	
Type Circuit	Parallel	
Pump	Type – Variable Piston	
Output* – @ 1,800 rpm	24 192 kPa	3,509 psi
	0-171	0-45.2
	L/min	gal/min

*Depending on system requirements.

Service Refill Capacities

Fuel Tank	378 L	100 gal
Circle Drive	7 L	1.8 gal
Engine Crankcase	30 L	7.9 gal
Transmission and Differential	74 L	19.5 gal
Cooling System	57 L	15 gal
Hydraulic System	55 L	14.5 gal
DEF Tank	12.5 L	3.3 gal
Front Wheel Spindle Bearing (each)	0.5 L	0.13 gal
All-Wheel Drive (AWD) Gearbox	7 L	1.8 gal

140 Motor Grader Specifications

Drawbar Circle Moldboard

Range of Motion	Standard		Top Adjust	
Lift Cylinders	2		2	
Maximum Depth of Cut	735 mm	28.9 in	715 mm	28.1 in
Maximum Lift Above Ground	480 mm	18.9 in	480 mm	18.9 in
Throat Clearance	119 mm	4.7 in	166 mm	6.5 in
Circle Center Shift Cylinder				
Center Shift Right	728 mm	28.7 in	728 mm	28.7 in
Center Shift Left	752 mm	29.6 in	695 mm	27.4
Moldboard Side Shift Cylinder				
Side Shift Left	663 mm	26.1 in	661 mm	26 in
Side Shift Right	512 mm	20.2 in	515 mm	20.3 in
Blade Tip Cylinder				
Maximum Blade Tip Forward	40°		40°	
Maximum Blade Tip Backward	5°		5°	
Circle Drive	360° of Blade Rotation			
Link Bar	7 Positions to adjust the drawbar circle moldboard range of motion			
Drawbar Shoes	6 with replaceable wear strips			

Moldboard

	Standard		Option 1		Option 2	
Width	3.7 m	12 ft	4.3 mm	14 ft	4.3 mm	14 ft
Height	594 mm	23.4 in	635 mm	25 in	682 mm	26.9 in
End Bit	152 mm	6 in	152 mm	6 in	152 mm	6 in
Cutting Edge	152 mm	6 in	203 mm	8 in	203 mm	8 in
Arc Radius	413 mm	16.3 in	413 mm	16.3 in	413 mm	16.3 in
Throat Clearance	124 mm	4.9 in	124 mm	4.9 in	89 mm	3.5 in

- 3.7 m (12 ft) moldboard is standard.

Circle

Sections	Rolled Ring Forging
Number of Teeth	64
Rotation	360°

140 Motor Grader Specifications

Maximum Shoulder Reach Outside of Tires

Blade	3.7 m (12 ft)		4.3 m (14 ft)	
Right	1928 mm	76 in	2233 mm	88 in
Left	1764 mm	69.4 in	2201 mm	86.7 in

- An additional 300 mm (11.8 in) of reach can be achieved to the right or left by changing the side shift mounting bracket on the 4.3 m (14 ft) blade.

Ripper

Ripping Depth Maximum	426 mm	16.8 in
Ripper Shank Holder	5	
Ripper Shank Holder Spacing	533 mm	21 in
Penetration Force	9440 kg	20,812 lb
Pryout Force	11 877 kg	26,184 lb
Pryout Force (All-Wheel Drive)	13 650 kg	30,093 lb
Machine Length Increase, Beam Raised	1031 mm	40.6 in

Scarifier

Front, V-Type: Working Width	1205 mm	47.4 in
Front, V-Type: 5 or 11 Tooth		
Working Width	1031 mm	40.6 in
Scarifying Depth, Maximum	467 mm	18.4 in
Scarifier Shank Holders	11	
Scarifier Shank Holder Spacing	116 mm	4.6 in

Rear

Working Width	2133 mm	84 in
Scarifying Depth, Maximum	426 mm	16.8 in
Scarifier Shank Holders	9	
Scarifier Shank Holder Spacing	267 mm	10.5 in

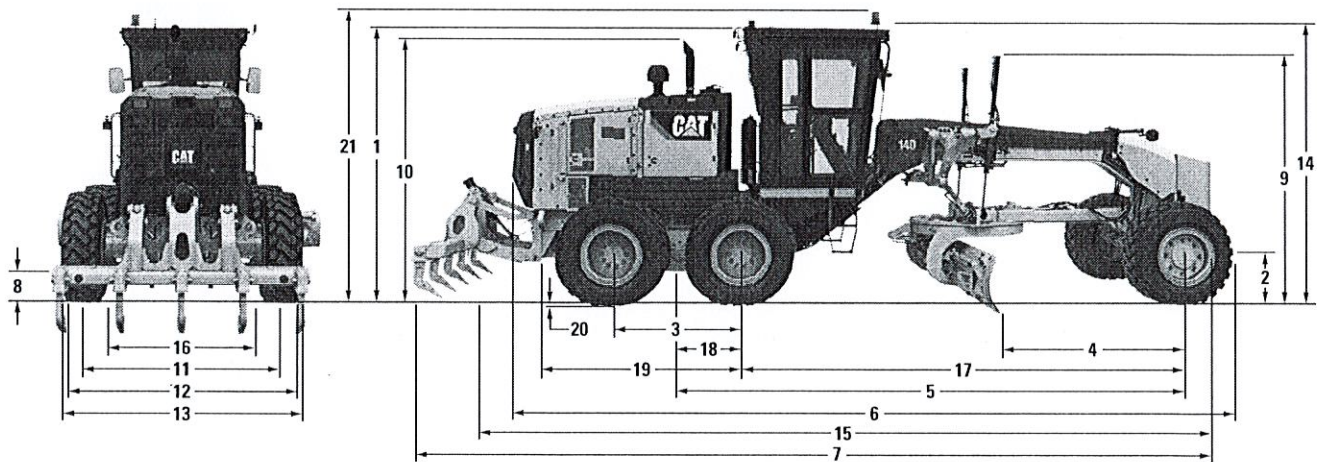
Electrical

Starting System Type	Direct Electric
Heavy Duty Battery	
CCA at 18°	1,125 amp
Volts	12V
Quantity	2
Extreme Duty Battery	
CCA at 18°	1,400 amp
Volts	12V
Quantity	2
Standard Alternator	115 amps at 24V
Heavy Duty Alternator	150 amps at 24V

140 Motor Grader Specifications

Dimensions

All dimensions are approximate.



Length of Machine*	10 100 mm	397.6 in	Width	2480 mm	97.6 in
Maximum Height	3354 mm	148.8 in	Basic Blade Width	3556 mm	140 in

*Typically equipped with push block and ripper.

1 Height – Top of Cab	3354 mm	132 in
2 Height – Front Axle Center	604 mm	23.7 in
3 Length – Between Tandem Axles	1497.5 mm	59 in
4 Length		
Front Axle to Moldboard (Non AWD)	2592 mm	102 in
Front AWD Axle to Moldboard (AWD)	2557 mm	100.7 in
5 Length		
Front Axle to Mid Tandem (Non AWD)	6169 mm	242.9 in
Front AWD Axle to Mid Tandem (AWD)	6134 mm	241.5 in
6 Length		
Front Tire to Rear of Machine (Non AWD)	8897 mm	350.3 in
Front Tire to Rear of Machine (AWD)	8862 mm	348.9 in
7 Length – Push Plate to Ripper	10 100 mm	397.6 in
8 Ground Clearance at Rear Axle	337 mm	13.3 in
9 Height to Top of Cylinders	3043 mm	119.8 in

10 Height to Exhaust Stack	3275 mm	128.9 in
11 Width – Tire Center Lines	2110 mm	83.1 in
12 Width – Outside Rear Tires	2464 mm	97 in
13 Width		
Outside Front Tires (Non AWD)	2480 mm	97.6 in
Outside Front Tires (AWD)	2594 mm	102.1 in
14 Maximum Height – with Attachments (Beacon in Shipment Position)	3413 mm	134.4 in
15 Length – Push Plate to Raised Ripper	9778 mm	385 in
16 Width – Inside Rear Tires	1711 mm	67.4 in
17 Length		
Front Axle to Articulation Hitch (Non AWD)	5325 mm	209.6 in
Front Axle to Articulation Hitch (AWD)	5290 mm	208.3 in
18 Length Rear Axle to Articulation Hitch	844 mm	33.2 in
19 Length – Rear Axle to Rear of Frame	1705 mm	67.1 in
20 Height – Tire Deflection at Performance Weight	65 mm	2.6 in
21 Maximum Height – with Attachments (Beacon in Operating Position)	3780 mm	149 in

140 Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
ENGINE		
Cat C9.3 engine	✓	
Tier 4 Final diesel engine	✓	
Snow precleaner		✓
ECO mode	✓	
Extreme duty starter		✓
50° C (122° F) ambient capacity	✓	
Reversing fan		✓
All-Wheel Drive (AWD)		✓
Differential lock/unlock	✓	
Engine idle shutdown timer	✓	
Transmission, autoshift		✓
MOLDBOARD		
Standard drawbar circle moldboard	✓	
Circle drive slip clutch	✓	
Top adjust drawbar circle moldboard		✓
Circle saver		✓
ELECTRICAL		
Sealed alternator	✓	
Reversing lights	✓	
Breaker panel	✓	
1,125 CCA heavy duty batteries	✓	
1,400 CCA extreme duty batteries		✓
Electric starter	✓	

	Standard	Optional
CAB		
Vinyl seat	✓	
ROPS, standard sound suppression	✓	
Air suspension adjustable seat		✓
Information display screen	✓	
Open ROPS cab		✓
Heating, ventilation, and air conditioning (HVAC) system	✓	
Defrost fans		✓
Halogen lighting	✓	
Cup and bottle holders	✓	
Implement lockout		✓
Adjustable control console	✓	
Interior lights	✓	
LED lighting		✓
Entertainment Radio Ready	✓	
Coat hook	✓	
USB/auxiliary radio		✓
Steering wheel	✓	
Communication radio mounting		✓
Lever controls	✓	
Heated mirrors		✓
Electric throttle control	✓	
Front windshield wiper	✓	
Rear wiper		✓
Rear window screen		✓
Cab storage	✓	

(continued on next page)

140 Standard and Optional Equipment

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
SAFETY AND SECURITY			GUARDS		
Parking brake	✓		Front fenders for All-Wheel Drive		✓
Back up alarm	✓		Rear fenders		✓
Signaling/warning horn	✓		Front axle guard for All-Wheel Drive		✓
Warning beacon		✓	Transmission		✓
Rearview mirror	✓		Cover, under cab platform		✓
Rearview camera		✓	ATTACHMENTS		
Hydraulic brakes	✓		Counterweight		✓
Secondary steering system	✓		Push block		✓
Side view mirrors	✓		Front lift group		✓
Strategically placed walkways and grab rails	✓		Ripper		✓
SERVICE AND MAINTENANCE			Scarifier		✓
Ground level fuel fill	✓		Auxiliary hydraulic lines		✓
Grouped location for engine oil and fuel filters	✓		V-plow		✓
Extended Life Coolant	✓		One-way plow		✓
Radiator, cleanout access	✓				
CAT CONNECT TECHNOLOGY					
Cat GRADE with Cross Slope		✓			
Cat GRADE with Cross Slope Indicate		✓			
Digital Blade Slope Meter		✓			
Cat GRADE Attachment Ready Option (ARO)		✓			
Product Link™	✓				
Stable blade		✓			
Remote services		✓			

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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AEXQ2467 (09-2018)
Build Number: 13A
(North America)



MOTOR GRADERS**BID SPECIFICATION FOR 140 OR EQUIVALENT**

Bid specs are intended for use by North American buyers only and are subject to change. Model configuration may change depending on country of use. Please contact your local Caterpillar dealer for the most up-to-date specifications for your area.

Category	Specification
BASIC SPECIFICATIONS	Machine shall be designed and built by the manufacturer.
BASIC SPECIFICATIONS	Base Machine Weight shall not be less than 31,508 lb (14,212 kg). Weight shall include: standard machine configuration, lubricants, coolants, full fuel tank and operator of 200 lbs (91 kg).
BASIC SPECIFICATIONS	Max saleable weight of the machine shall not be less than 50,420 lb (22,870 kg). Weight shall be the heaviest possible combination of compatible attachments, also including lubricants, full fuel tank and operator of 200 lbs (91 kg).
BASIC SPECIFICATIONS	Machine length from the front outside edge tire to end of tow hitch shall not be less than 334.8 in (8,504 mm).
BASIC SPECIFICATIONS	Machine Wheel Base (distance from front axle to mid tandem) shall not be less than 239.6 in (6,086 mm).
BASIC SPECIFICATIONS	Machine length from counterweight to ripper shall not exceed 394.2 in (10,013 mm).
BASIC SPECIFICATIONS	Machine height to top of the cab shall not exceed 132 in (3,354 mm).
BASIC SPECIFICATIONS	Front frame shall be a flanged box section construction which removes welds from high stress areas
BASIC SPECIFICATIONS	The rear frame shall have two box section channels with an integrated bumper.
BASIC SPECIFICATIONS	A standard rear hitch shall be provided.
ENGINE	Engine shall be designed and built by the manufacturer.
ENGINE	Engine shall be a turbo-charged, direct injection, four stroke, 6-cylinder diesel engine.
ENGINE	Engine shall be electronically controlled for more efficient fuel injection and fuel burn.
ENGINE	Engine displacement shall not be less than 7.2L (439 in3).
ENGINE	Engine will increase its low idle speed to 1,000 rpm when the battery voltage is below 24.5 volts for more than 5 minutes to ensure adequate system voltage and battery reliability.
ENGINE	Engine shall develop a rated net flywheel power of a least 171 HP (128 kW) in 1st gear and 191 HP (143 kW) in 4th gear through 8th gear.
ENGINE	Rated engine power shall not be achieved at an engine speed greater than 2000 rpm.
ENGINE	Peak engine power shall not be achieved at an engine speed greater than 2000 rpm.
ENGINE	Engine shall be isolation/resilient mounted to minimize sound and vibration.
ENGINE	Engine shall be certified EPA Tier 3 and European Union Stage IIIa
ENGINE	Altitude deration will not occur at altitudes less than 10,000 ft (3048 m). The deration rate above 3048 m (10,000 ft) shall be 1.5% per 305 m (1000 ft).
ENGINE	Engine shall allow for at least 500 hours of operation between oil changes.
ENGINE	Engine enclosure and daily service points shall be accessible from ground level, and grouped on the left side of the machine.
ENGINE	Ether starting aid shall be available and must automatically meter ether injection to prevent engine damage.
ENGINE	Engine shall automatically lower engine torque and alert the operator if critical conditions are detected.
ENGINE	Engine compartment doors shall be lockable without the use of external locks.
ENGINE	A jacket water heater shall be available to assist in cold weather starting.
POWERTRAIN/TRANSMISSION	Transmission shall be designed and built by the machine manufacturer.
POWERTRAIN/TRANSMISSION	Transmission shall be a direct drive, power shift, countershaft type.
POWERTRAIN/TRANSMISSION	Transmission shall not have less than 8 forward speeds and 6 reverse speeds.
POWERTRAIN/TRANSMISSION	Transmission shall have 5 working gears between 0-10.8 mph (0-17.4 km/h), for dirt applications.
POWERTRAIN/TRANSMISSION	Differential Lock/Unlock shall be electro-hydraulically controlled, as a standard feature.
POWERTRAIN/TRANSMISSION	Differential Lock/Unlock shall not have speed restrictions for engaging/disengaging.
POWERTRAIN/TRANSMISSION	Differential Lock/Unlock shall be a multi-disc design.
POWERTRAIN/TRANSMISSION	Final drive shall be a planetary design.
POWERTRAIN/TRANSMISSION	A programmable auto-shift transmission option shall be available.
POWERTRAIN/TRANSMISSION	Machine shall be equipped with an electronic inching pedal for improved modulation and machine control.
POWERTRAIN/TRANSMISSION	Transmission shall be isolated/resilient mounted to reduce sound and vibration.
BRAKES	Service brakes shall be multi-disc, oil-cooled and completely sealed.
BRAKES	Service brakes shall be air actuated, utilizing dual independent brake circuits.
BRAKES	Entire braking system shall meet all requirements of ISO 3450: 1996.
BRAKES	Service brakes shall provide a minimum of 3,712 in ² (23,948 cm ²) of total friction material surface area used at each of the four tandem wheels to eliminate braking loads on the power train.
BRAKES	Parking brake shall be multi-disc, oil-cooled, air actuated and sealed
HYDRAULIC SYSTEM	Hydraulics system shall be a closed center, load sensing type, with a variable displacement, proportional priority pressure axial piston-type pump.
HYDRAULIC SYSTEM	Standard hydraulic implement pump shall produce between 0 and 20.9 gallon/min (79.0 L/min) of max oil flow.
HYDRAULIC SYSTEM	Optional high flow implement pump shall produce between 0 and 55.5 gallon/min (210.0 L/min) of max oil flow.
HYDRAULIC SYSTEM	Implement valves shall be proportional priority pressure compensating for consistent response, when multi-functioning any combination of implement controls and independent of engine speed.
HYDRAULIC SYSTEM	Hydraulic system shall be fully sealed, using Duo-cone and O-ring seals to prevent contamination and spillage.
HYDRAULIC SYSTEM	All implement hydraulic connections shall have O-ring face seals for leak prevention.
HYDRAULIC SYSTEM	Lock valves shall be integrated into the main implement valve to prevent cylinder drift.
HYDRAULIC SYSTEM	The maximum hydraulic system pressure shall be no more than 3,698.5 psi (25,500 kPa).
HYDRAULIC SYSTEM	The hydraulic stand-by pressure shall be no more than 522 psi (3600 kPa).
FRONT AXLE AND TANDEMS	Front axle shall be an arched design for maximum ground clearance.

MOTOR GRADERS	
BID SPECIFICATION FOR 140 OR EQUIVALENT	
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Category	Specification
FRONT AXLE AND TANDEMS	Front axle oscillation shall be no less than 32 degrees total, per side 16 degrees up, 16 degrees down.
FRONT AXLE AND TANDEMS	Front wheel steering angle shall be no less than 47.5 degrees left or right.
FRONT AXLE AND TANDEMS	Front wheel spindle bearings shall be a large diameter roller bearing.
FRONT AXLE AND TANDEMS	Front wheel spindle maintenance intervals shall be no less than 2000 hrs.
FRONT AXLE AND TANDEMS	Mechanical steering stops located at each wheel and steering cylinder relief valves shall be present to prevent steering system damage during normal operation.
FRONT AXLE AND TANDEMS	Maximum front wheel lean shall be no less than 18 degrees left or right.
FRONT AXLE AND TANDEMS	Machine turning radius shall not exceed 24 ft 9 in (7.5 m) using front steering, full articulation and unlocked differential.
FRONT AXLE AND TANDEMS	Steering tie rod ends shall be heat induction hardened.
FRONT AXLE AND TANDEMS	Tandem chain pitch shall not be less than 2.0 in (50.8 mm).
FRONT AXLE AND TANDEMS	Distance between center of tandem wheels shall be no less than 60 in (1523 mm).
FRONT AXLE AND TANDEMS	Tandems shall be capable of oscillating 15 degrees front tandem up and 25 degrees front tandem down, with full machine articulation and having no interference between tandem wheel and machine structure.
OPERATORS STATION	An enclosed cab with ROPS (Rollover Protective Structure) according to ISO 3471: 1986-1997 shall be provided.
OPERATORS STATION	FOPS (Falling Object Protective Structure) shall be provided according to ISO 3449.
OPERATORS STATION	Cab shall be isolation-mounted to the front frame section of the machine.
OPERATORS STATION	Cab doors shall have a hold-open clasp with a ground-level release and in addition to, a release in the cab.
OPERATORS STATION	Cab shall have fixed front window of laminated glass with intermittent wiper.
OPERATORS STATION	Wipers shall be available on rear windows.
OPERATORS STATION	A rear sun shade shall be available.
OPERATORS STATION	A rear defroster fan shall be available.
OPERATORS STATION	Left and right side cab doors shall be standard.
OPERATORS STATION	Operator cab fresh air-filter shall be accessible for clean out and replacement, from behind the operator's seat
OPERATORS STATION	A 25,000 BTU/h (12.3 kW) heater with integral pressurizer and four-speed fan shall be standard
OPERATORS STATION	Machine shall have no less than 14 adjustable vents, positioned to direct air to front windows and operator.
OPERATORS STATION	Auxiliary controls shall be available for control of attachment implements and/or work tools
OPERATORS STATION	An instrument cluster shall be provided that includes a differential lock, throttle lock, brake air, coolant temperature, fuel and articulation angle gauge.
OPERATORS STATION	Digital machine hour meter shall be provided.
OPERATORS STATION	Seat shall be a cloth-covered suspension seat with, 3-inch (76 mm) retractable seat belts, with adjustments for fore-aft position, seat height, seat back angle, thigh support, and lumbar support.
OPERATORS STATION	Radio ready arrangement including 24V to 12V converter, two speakers, antenna and wiring shall be standard.
OPERATORS STATION	Machine shall have the AccuGrade™ system fully integrated into the machine design with integral hydraulic and electrical components as part of optional performance package with high flow implement pump
OPERATORS STATION	AccuGrade™ automatic blade control system attachment ready option shall be available from the factory. This option shall include additional mounting brackets and electrical harnesses for easy installation of the electronics kit.
DRAWBAR, CIRCLE & MOLDBOARD	Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides.
DRAWBAR, CIRCLE & MOLDBOARD	There will be no more than 6 replaceable wear inserts between the circle and drawbar.
DRAWBAR, CIRCLE & MOLDBOARD	Drawbar wear strips shall be replaceable drop-in inserts, made from nylon composite material.
DRAWBAR, CIRCLE & MOLDBOARD	Circle outside diameter shall be no less than 60.2 in (1530 mm).
DRAWBAR, CIRCLE & MOLDBOARD	Circle shall be a single piece, rolled-ring forging, with raised wear surfaces on the top and bottom.
DRAWBAR, CIRCLE & MOLDBOARD	Circle teeth contact surfaces shall be induction-hardened on the front 240 degrees of the circle.
DRAWBAR, CIRCLE & MOLDBOARD	Moldboard shall have a hydraulic tip control through a range of 40 degrees fore and 5 degrees aft.
DRAWBAR, CIRCLE & MOLDBOARD	The standard moldboard shall be at least 12 ft (3657 mm) long, 24 in (610 mm) high and no less than 7/8 in (22 mm) thick.
DRAWBAR, CIRCLE & MOLDBOARD	A 14 ft (4267 mm) long, 24 in (610 mm) high and no less than 7/8 in (22 mm) thick moldboard shall be available.
DRAWBAR, CIRCLE & MOLDBOARD	The standard mounting hardware for cutting edges and end bits shall be 3/4 in (19 mm)
DRAWBAR, CIRCLE & MOLDBOARD	Moldboard slide rails shall be constructed of a heat-treated, high carbon steel.
DRAWBAR, CIRCLE & MOLDBOARD	Slide rails shall be hardened and continuously welded
DRAWBAR, CIRCLE & MOLDBOARD	Throat clearance with standard moldboard shall be at least 4.7 in (120 mm).
DRAWBAR, CIRCLE & MOLDBOARD	Blade lift and center shift cylinders shall have replaceable bronze-alloy wear inserts in the ball sockets with removable shims to insure the ability to remove free play throughout the useful wear insert life.
DRAWBAR, CIRCLE & MOLDBOARD	Link bar shall have 7 positions for increased versatility.

MOTOR GRADERS	
BID SPECIFICATION FOR 140 OR EQUIVALENT	
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Category	Specification
DRAWBAR, CIRCLE & MOLDBOARD	The moldboard retention system shall have two retention points located on the left and right side of the moldboard. The surface area shall not be less than 58016 mm ² (89.92 in ²)
DRAWBAR, CIRCLE & MOLDBOARD	The drawbar shall feature welded protective wear plates to prevent lift group contact with the primary drawbar structure.
ELECTRICAL	Machine shall have, 750 CCA heavy-duty maintenance-free batteries standard.
ELECTRICAL	Machine shall have 190 amp-hour, 1400 CCA extra heavy-duty batteries available.
ELECTRICAL	Machine shall have an 115-amp alternator as standard.
ELECTRICAL	Starting system shall be a 24V direct electric type.
ELECTRICAL	A 24 V to 12 V converter with 10-amp capacity shall be standard.
ELECTRICAL	Electrical system shall have a master disconnect switch with a removable key (in addition to the ignition switch), accessible from the ground level.
ELECTRICAL	A 24V to 12V converter with 25-amp capacity shall be available.
ELECTRICAL	White reversing lamps and red stop lamps shall be standard.
ELECTRICAL	High and low bar headlights with front turn signals shall be available.
SERVICEABILITY	A guard shall be available to protect the machine's transmission from debris.
SERVICEABILITY	A guard shall be available to suppress sound from the engine.
SERVICEABILITY	A two-way communication tool shall give service technicians easy access to stored diagnostic data and allow configuration of machine parameters.
SERVICEABILITY	Machine shall provide 3 points of contact on all areas of the machine, for mounting and dismounting.
SERVICEABILITY	The articulation joint shall have mechanical locking device to prevent frame articulation while servicing or transporting machine.
SERVICEABILITY	Left and right side tandem case assemblies shall be covered with punched steel plate to provide an adequate platform for standing and walking.
SERVICEABILITY	High-speed engine oil drain system shall be made optional
SERVICEABILITY	Sampling ports shall be accessible from the tandem level and provide access to the engine, hydraulic, coolant, and fuel ports.
MINIMUM SERVICE FILL CAPACITIES	Standard fuel tank capacity shall not be less than 86.6 gallons (305 L).
MINIMUM SERVICE FILL CAPACITIES	Standard cooling system capacity shall not be less than 10.6 gallons (40 L).
MINIMUM SERVICE FILL CAPACITIES	Standard hydraulic tank capacity shall not be less than 14.5 gallons (55 L).
MINIMUM SERVICE FILL CAPACITIES	Standard engine oil capacity shall not be less than 4.8 gallons (18 L).
MINIMUM SERVICE FILL CAPACITIES	Standard tandem housing capacity shall not be less than 16.9 gallons (64 L) each.
MINIMUM SERVICE FILL CAPACITIES	Standard front wheel spindle bearing housing shall not be less than 0.1 gallons (0.5 L).
MINIMUM SERVICE FILL CAPACITIES	Standard circle drive housing capacity shall not be less than 1.9 gallons (7 L)
SAFETY AND ENVIRONMENTAL	Machine shall have back-up lights and sounding alarm as standard when reverse gears are selected.
SAFETY AND ENVIRONMENTAL	A circle drive slip clutch shall be provided as standard, to reduce horizontal moldboard impact damage.
SAFETY AND ENVIRONMENTAL	Blade lift accumulators shall be available, to reduce vertical impact damage.
SAFETY AND ENVIRONMENTAL	An external emergency kill switch shall be available for ground level engine shut down.
SAFETY AND ENVIRONMENTAL	Electrical system shall have a master disconnect switch with a removable key and lock (in addition to the ignition switch).
SAFETY AND ENVIRONMENTAL	A guard shall be available to protect the machine's transmission from debris.
SAFETY AND ENVIRONMENTAL	Machine shall provide dual exits allowing for emergency egress should one side become obstructed
SAFETY AND ENVIRONMENTAL	Machine shall have laminated glass for the front windows and doors to protect the operator from shattered glass.
ADDITIONAL FEATURES	A rear ripper/scarifier shall be available.
ADDITIONAL FEATURES	Rear ripper shall have five ripper shank holders and 9 scarifier shank holders.
ADDITIONAL FEATURES	Rear ripper shall have a working penetration of maximum 18.2 in (462 mm) and a penetration force of at least 19,166 lb (8694 kg)
ADDITIONAL FEATURES	A front lift group shall be available
ADDITIONAL FEATURES	A front scarifier and mid-mount scarifier shall be available.
ADDITIONAL FEATURES	A snow wing frame ready option shall be available.
ADDITIONAL FEATURES	Rear fenders shall meet ISO-3457 requirements and shall not interfere with the ability to fully open any cab or engine enclosure, or service access doors.
ADDITIONAL FEATURES	An integrated communication tool providing flow of vital machine data and location shall be available. This system shall give automatic updates on machine parameters such as machine hours, machine condition, location, fault codes and alarms.
ADDITIONAL FEATURES	All core machine systems shall be electronically connected optimizing performance and preventing machine damage

Effective with sales to the first user on or after November 1, 2010

CATERPILLAR LIMITED WARRANTY

For Selected Machine Models Designated by Caterpillar With 12 Month/Unlimited Hour Warranty

Worldwide

Caterpillar Inc. or any of its subsidiaries ("Caterpillar") warrants the following products sold by it to be free from defects in material and workmanship:

This warranty does not apply to new replacement engines.

This warranty does not apply to selected models or new replacement engines designated by Caterpillar in India and China.

(In other areas different warranties may apply. Copies of applicable warranties may be obtained by writing to Caterpillar Inc., 100 N.E. Adams St., Peoria, IL 61629.)

- New earthmoving, construction, material handling, forestry product, paving product, compact wheel loader, mini hydraulic excavator, skid steer loader, multi terrain loader, and compact track loader machines designated by Caterpillar as having 12 -months/unlimited hour warranty. See your Cat dealer for a complete listing of covered models.

- Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat Work Tool warranty statement or another manufacturer's warranty). Hammer tool points and compacting plates used on hydraulic hammers are not warranted.

An additional warranty against breakage is applicable to certain Cat ground engaging tools. An additional warranty against wear is applicable to all landfill compactor tips when used in residential waste landfills. Refer to the applicable warranty statements for coverage detail.

This warranty does not apply to Cat batteries, Mobil-trac belts, rubber tracks used on multi terrain loaders, compact track loaders, and mini hydraulic excavators, or Cat Work Tools, which are covered by other Caterpillar warranties.

This warranty is subject to the following:

Warranty Period

For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.

Note: For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery to the first user.

Caterpillar Responsibilities

If a defect in material or workmanship is found during the warranty period, Caterpillar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Caterpillar:

- Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to correct the defect.

Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.

- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.

- Provide reasonable and customary labor needed to correct the defect, except in the case of a new replacement engine originally installed by other than a Cat dealer or source approved by Caterpillar. In this

case, labor is limited to repair only, and removal and installation is the user's responsibility.

User Responsibilities

The user is responsible for:

- Providing proof of delivery date to the first user.
- Labor costs, except as stated under "Caterpillar Responsibilities."
- Transportation costs, except as stated under "Caterpillar Responsibilities."
- Premium or overtime labor costs.
- Parts shipping charges in excess of those, that are considered usual and customary.
- Local taxes, if applicable.
- Costs to investigate complaints, unless the problem is caused by a defect in Caterpillar material or workmanship.
- Giving timely notice of a warrantable failure and promptly making the product available for repair.
- Performance of the required maintenance (including use of proper fuel, oil, lubricants, and coolant) and items replaced due to normal wear and tear.
- Allowing Caterpillar access to all electronically stored data.

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Limitations

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges improper.
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.
- Failures resulting from abuse, neglect, and/or improper repair.
- Failures resulting from user's delay in making the product available after being notified of a potential product problem.
- Failures resulting from unauthorized repair or adjustments, and unauthorized fuel setting changes.

For products operating outside of Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

NEITHER THE FOREGOING EXPRESS WARRANTY NOR ANY OTHER WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED, IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT CATERPILLAR EMISSION-RELATED COMPONENTS WARRANTY FOR NEW ENGINES, WHERE APPLICABLE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN.

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS IS EXCLUDED IN ITS ENTIRETY.

For products operating in Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY STATUTE OR OTHERWISE), ARE EXCLUDED.

NEITHER THIS WARRANTY NOR ANY OTHER CONDITION OR WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED (SUBJECT ONLY TO THE MANDATORY RIGHTS), IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

TO THE EXTENT PERMITTED UNDER THE MANDATORY RIGHTS, IF CATERPILLAR IS THE SUPPLIER TO THE USER, CATERPILLAR'S LIABILITY SHALL BE LIMITED AT ITS OPTION TO (a) IN THE CASE OF SERVICES, THE SUPPLY OF THE SERVICES AGAIN OR THE PAYMENT OF THE COST OF HAVING THE SERVICES SUPPLIED AGAIN, AND (b) IN THE CASE OF GOODS, THE REPAIR OR REPLACEMENT OF THE GOODS, THE SUPPLY OF EQUIVALENT GOODS, THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT GOODS.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

CATERPILLAR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES UNLESS IMPOSED UNDER MANDATORY RIGHTS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION (CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS) IS EXCLUDED IN ITS ENTIRETY.

This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Cat dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629.

CONTROL YOUR COSTS MINIMIZE YOUR RISKS

This plan safeguards your investments in new, used and rebuilt machines beyond the standard warranty period. It includes all parts and labor to protect you against failures caused by defects in materials and workmanship. With the Powertrain Equipment Protection Plan, you can increase the predictability of service and maintenance costs—and reduce unplanned downtime.

WHAT WE DO

- Perform necessary inspections to confirm eligibility
- Install parts approved by Caterpillar on covered repairs
- Validate your enrollment in the program

WHAT YOU DO

- Operate equipment according to the Cat Operation & Maintenance Manual (OMM)
- Have recommended preventive maintenance performed at intervals specified in the OMM
- Upon request, provide proof of preventive maintenance compliance (receipts, copies of work orders, invoices)
- Promptly provide the machine for repair in the event of a covered failure

COVERED COMPONENTS

- Engine - Internal Components
- Oil Cooler
- Manifolds
- Fan Motor
- Water Pump
- Fuel Injection Pumps
- Injectors
- Lift / Transfer Pump
- Senders / Solenoids / Sensors
- Thermostat
- Flywheel & Torque Converter
- Engine Oil Filter Mount
- Turbocharger
- AC Compressor / Condenser
- Electronic Control Modules
- Oil Hoses / Lines (non-hydrostatic)
- Cylinder Block
- Piston
- Piston Rings
- Piston & Connecting Rod
- Crankshaft, Main Bearings & Rod Bearings

Camshaft & Camshaft Bearings

- Timing / Accessory Gears
- Timing Chain / Belt
- Inlet / Exhaust Valve
- Valve Cover & Base
- Valve Spring & Guide
- Rocker Arm
- Rocker Shaft Assembly
- Push Rod
- Balancer
- Fuel Pump / Governor Drive
- Oil Pump
- Oil Pan Group
- Fan & Fan Drive

Hydrostatic Pumps & Drive Motors

- Linkage / lines Connected to Hystat Pump
- Drive (pilot / eh) Control Valves
- Bevel and Transfer Case

Axles

- Axle Seals
- Final Drive & Wheel
- Final Drive Case / Bore
- Final Drive Chain
- Final Drive Gears
- Axle Shaft
- Drive Axle Oil Pump

Transmissions

- Hydraulic Controls
- Transmission Oil Filter Base
- Transmission Gears
- Final Drives/Planetary
- Drive Shafts
- Transfer Case

Steering Clutch

- Steering Clutch & Brake Control Valve

Hydraulic Oil Coolers

EXCLUSIONS

If a component is not listed, it may not be included in the plan. Other exclusions include:

- > Improper or abusive use of the machine
 - > Lubricating oil, antifreeze, filters, consumables and other maintenance items replaced during the covered component repair, unless such items are rendered unusable by a covered component failure
 - > Failures caused by normal wear-out
 - > Freight charges for parts shipments
 - > Travel time and mileage involved in getting to a job site
 - > Hauling costs and / or retrieval costs
 - > Overtime labor costs
 - > Repair costs resulting from the failure of any non-covered components
 - > Downtime loss
 - > Equipment rental charges
 - > Any incidental / consequential damages or costs incurred as a result of a covered component failure.
 - > Modifications unless approved by Caterpillar
- Examples of covered and excluded components or items are listed here. The actual dealer contract will govern. For a complete list of included components and more information on Cat Equipment Protection Plans, contact your local Cat dealer.**



Employment Eligibility Verification

Welcome
Teresa Norton

User ID
TMOF9402

Last Login
09:22 AM - 01/06/2012 Log Out



Click any for help

[Home](#)

[My Cases](#)

[New Case](#)

[View Cases](#)

[Search Cases](#)

[My Profile](#)

[Edit Profile](#)

[Change Password](#)

[Change Security Questions](#)

[My Company](#)

[Edit Company Profile](#)

[Add New User](#)

[View Existing Users](#)

[Close Company Account](#)

[My Reports](#)

[View Reports](#)

[My Resources](#)

[View Essential Resources](#)

[Take Tutorial](#)

[View User Manual](#)

[Contact Us](#)

Company Information

Company Name: Thompson Tractor Co., Inc.
Company ID Number: 47130
Doing Business As (DBA) Name:
DUNS Number:

[View / Edit](#)

Physical Location:

Address 1: 2401 Pinson Highway
Address 2:
City: Birmingham
State: AL
Zip Code: 35217
County: JEFFERSON

Mailing Address:

Address 1: P O. Box 10367
Address 2:
City: Birmingham
State: AL
Zip Code: 35202-0367

Additional Information:

Employer Identification Number: 630377478
Total Number of Employees: 1,000 to 2,499
Parent Organization:
Administrator:
Organization Designation:
Employer Category:

NAICS Code: 423 - MERCHANT WHOLESALERS, DURABLE GOODS

[View / Edit](#)

Total Hiring Sites: 40

[View / Edit](#)

Total Points of Contact: 3

[View / Edit](#)

[View MOU](#)

Request for Taxpayer
Identification Number and Certification

Give form to the
requester. Do not
send to the IRS.

Print or type
See Specific Instructions on page 2.

Name (as shown on your income tax return) Thompson Tractor Co., Inc. DBA Thompson Power Systems, Thompson Lift Truck Co.	
Business name, if different from above and The Cat Rent Store	
Check appropriate box: <input type="checkbox"/> Individual/Sole proprietor <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership) ▶ <input type="checkbox"/> Other (see instructions) ▶	<input checked="" type="checkbox"/> Exempt payee
Address (number, street, and apt. or suite no.) P O Box 10367 2401 Pinson Hwy. Tarrant, AL 35217	
City, state, and ZIP code Birmingham, AL 35202-0367	
List account number(s) here (optional) Lockbox Remit To: P O Box 934085, Atlanta, GA 31193-4005	
Requester's name and address (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number : : :
or
Employer identification number 63 : 0377478

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification Instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the Instructions on page 4.

Sign Here Signature of U.S. person ▶ *Linda L. Dumas, Controller*

Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity.

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THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION

MEMORANDUM OF UNDERSTANDING

ARTICLE I

PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Social Security Administration (SSA), the Department of Homeland Security (DHS) and Thompson Tractor Co., Inc. (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). E-Verify is a program in which the employment eligibility of all newly hired employees will be confirmed after the Employment Eligibility Verification Form (Form I-9) has been completed.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note).

ARTICLE II

FUNCTIONS TO BE PERFORMED

A. RESPONSIBILITIES OF THE SSA

1. Upon completion of the Form I-9 by the employee and the Employer, and provided the Employer complies with the requirements of this MOU, SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all newly hired employees and the employment authorization of U.S. citizens.
2. The SSA agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. The SSA agrees to provide the Employer with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during the E-Verify process.
3. The SSA agrees to safeguard the information provided by the Employer through the E-Verify program procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security Numbers and for evaluation of the E-Verify program or such other persons or entities who may be authorized by the SSA as governed by the Privacy Act (5 U.S.C. § 552a), the Social Security Act (42 U.S.C. 1306(a)), and SSA regulations (20 CFR Part 401).
4. SSA agrees to establish a means of automated verification that is designed (in conjunction with DHS's automated system if necessary) to provide confirmation or tentative nonconfirmation of U.S. citizens' employment eligibility and accuracy of SSA records for both citizens and aliens within 3 Federal Government work days of the initial inquiry.

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5. SSA agrees to establish a means of secondary verification (including updating SSA records as may be necessary) for employees who contest SSA tentative nonconfirmations that is designed to provide final confirmation or nonconfirmation of U.S. citizens' employment eligibility and accuracy of SSA records for both citizens and aliens within 10 Federal Government work days of the date of referral to SSA, unless SSA determines that more than 10 days may be necessary. In such cases, SSA will provide additional verification instructions.

B. RESPONSIBILITIES OF THE DEPARTMENT OF HOMELAND SECURITY

1. Upon completion of the Form I-9 by the employee and the Employer and after SSA verifies the accuracy of SSA records for aliens through E-Verify, DHS agrees to provide the Employer access to selected data from DHS's database to enable the Employer to conduct:

- Automated verification checks on newly hired alien employees by electronic means, and
- Photo verification checks (when available) on newly hired alien employees.

2. DHS agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. DHS agrees to provide the Employer names, titles, addresses, and telephone numbers of DHS representatives to be contacted during the E-Verify process.

3. DHS agrees to provide to the Employer a manual (the E-Verify Manual) containing instructions on E-Verify policies, procedures and requirements for both SSA and DHS, including restrictions on the use of E-Verify.. DHS agrees to provide training materials on E-Verify.

4. DHS agrees to provide to the Employer a notice, which indicates the Employer's participation in the E-Verify program. DHS also agrees to provide to the Employer anti-discrimination notices issued by the Office of Special Counsel for Immigration-Related Unfair Employment Practices (OSC), Civil Rights Division, and U.S. Department of Justice.

5. DHS agrees to issue the Employer a user identification number and password that permits the Employer to verify information provided by alien employees with DHS's database.

6. DHS agrees to safeguard the information provided to DHS by the Employer, and to limit access to such information to individuals responsible for the verification of alien employment eligibility and for evaluation of the E-Verify program, or to such other persons or entities as may be authorized by applicable law. Information will be used only to verify the accuracy of Social Security Numbers and employment eligibility, to enforce the Immigration and Nationality Act and federal criminal laws, and to ensure accurate wage reports to the SSA.

7. DHS agrees to establish a means of automated verification that is designed (in conjunction with SSA verification procedures) to provide confirmation or tentative nonconfirmation of employees' employment eligibility within 3 Federal Government work days of the initial inquiry.

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8. DHS agrees to establish a means of secondary verification (including updating DHS records as may be necessary) for employees who contest DHS tentative nonconfirmations and photo non-match tentative nonconfirmations that is designed to provide final confirmation or nonconfirmation of the employees' employment eligibility within 10 Federal Government work days of the date of referral to DHS, unless DHS determines that more than 10 days may be necessary. In such cases, DHS will provide additional verification instructions.

C. RESPONSIBILITIES OF THE EMPLOYER

1. The Employer agrees to display the notices supplied by DHS in a prominent place that is clearly visible to prospective employees.

2. The Employer agrees to provide to the SSA and DHS the names, titles, addresses, and telephone numbers of the Employer representatives to be contacted regarding E-Verify.

3. The Employer agrees to become familiar with and comply with the E-Verify Manual.

4. The Employer agrees that any Employer Representative who will perform employment verification queries will complete the E-Verify Tutorial before that individual initiates any queries.

A. The employer agrees that all employer representatives will take the refresher tutorials initiated by the E-Verify program as a condition of continued use of E-Verify.

B. Failure to complete a refresher tutorial will prevent the employer from continued use of the program.

5. The Employer agrees to comply with established Form I-9 procedures, with two exceptions:

- If an employee presents a "List B" identity document, the Employer agrees to only accept "List B" documents that contain a photo. (List B documents identified in 8 C.F.R. § 274a.2 (b) (1) (B)) can be presented during the Form I-9 process to establish identity).
- If an employee presents a DHS Form I-551 (Permanent Resident Card) or Form I-766 (Employment Authorization Document) to complete the Form I-9, the Employer agrees to make a photocopy of the document and to retain the photocopy with the employee's Form I-9. The employer will use the photocopy to verify the photo and to assist the Department with its review of photo non-matches that are contested by employees. Note that employees retain the right to present any List A, or List B and List C, documentation to complete the Form I-9. DHS may in the future designate other documents that activate the photo screening tool.

6. The Employer understands that participation in E-Verify does not exempt the Employer from the responsibility to complete, retain, and make available for inspection Forms I-9 that relate to its employees, or from other requirements of applicable regulations or laws, except for the following modified requirements applicable by reason of the Employer's participation in E-Verify: (1) identity documents must have photos, as described in paragraph 5 above; (2) a

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rebuttable presumption is established that the Employer has not violated section 274A(a)(1)(A) of the Immigration and Nationality Act (INA) with respect to the hiring of any individual if it obtains confirmation of the identity and employment eligibility of the individual in compliance with the terms and conditions of E-Verify ; (3) the Employer must notify DHS if it continues to employ any employee after receiving a final nonconfirmation, and is subject to a civil money penalty between \$500 and \$1,000 for each failure to notify DHS of continued employment following a final nonconfirmation; (4) the Employer is subject to a rebuttable presumption that it has knowingly employed an unauthorized alien in violation of section 274A(a)(1)(A) if the Employer continues to employ any employee after receiving a final nonconfirmation; and (5) no person or entity participating in E-Verify is civilly or criminally liable under any law for any action taken in good faith on information provided through the confirmation system. DHS reserves the right to conduct Form I-9 compliance inspections during the course of E-Verify, as well as to conduct any other enforcement activity authorized by law.

7. The Employer agrees to initiate E-Verify verification procedures within 3 Employer business days after each employee has been hired (but after both sections 1 and 2 of the Form I-9 have been completed), and to complete as many (but only as many) steps of the E-Verify process as are necessary according to the E-Verify Manual. The Employer is prohibited from initiating verification procedures before the employee has been hired and the Form I-9 completed. If the automated system to be queried is temporarily unavailable, the 3-day time period is extended until it is again operational in order to accommodate the Employer's attempting, in good faith, to make inquiries during the period of unavailability. In all cases, the Employer must use the SSA verification procedures first, and use DHS verification procedures and photo screening tool only after the the SSA verification response has been given.

8. The Employer agrees not to use E-Verify procedures for pre-employment screening of job applicants, support for any unlawful employment practice, or any other use not authorized by this MOU. The Employer must use E-Verify for all new employees and will not verify only certain employees selectively. The Employer agrees not to use E-Verify procedures for re-verification, or for employees hired before the date this MOU is in effect. The Employer understands that if the Employer uses E-Verify procedures for any purpose other than as authorized by this MOU, the Employer may be subject to appropriate legal action and the immediate termination of its access to SSA and DHS information pursuant to this MOU.

9. The Employer agrees to follow appropriate procedures (see Article III.B. below) regarding tentative nonconfirmations, including notifying employees of the finding, providing written referral instructions to employees, allowing employees to contest the finding, and not taking adverse action against employees if they choose to contest the finding. Further, when employees contest a tentative nonconfirmation based upon a photo non-match, the Employer is required to take affirmative steps (see Article III.B. below) to contact DHS with information necessary to resolve the challenge.

10. The Employer agrees not to take any adverse action against an employee based upon the employee's employment eligibility status while SSA or DHS is processing the verification request unless the Employer obtains knowledge (as defined in 8 C.F.R. § 274a.1 (1)) that the employee is not work authorized. The Employer understands that an initial inability of the SSA or DHS automated verification to verify work authorization, a tentative nonconfirmation, or the finding of

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a photo non-match, does not mean, and should not be interpreted as, an indication that the employee is not work authorized. In any of the cases listed above, the employee must be provided the opportunity to contest the finding, and if he or she does so, may not be terminated or suffer any adverse employment consequences until and unless secondary verification by SSA or DHS has been completed and a final nonconfirmation has been issued. If the employee does not choose to contest a tentative nonconfirmation or a photo non-match, then the Employer can find the employee is not work authorized and take the appropriate action.

11. The Employer agrees to comply with section 274B of the INA by not discriminating unlawfully against any individual in hiring, firing, or recruitment or referral practices because of his or her national origin or, in the case of a protected individual as defined in section 274B(a)(3) of the INA, because of his or her citizenship status. The Employer understands that such illegal practices can include selective verification or use of E-Verify, discharging or refusing to hire eligible employees because they appear or sound "foreign", and premature termination of employees based upon tentative nonconfirmations, and that any violation of the unfair immigration-related employment practices provisions of the INA could subject the Employer to civil penalties pursuant to section 274B of the INA and the termination of its participation in E-Verify. If the Employer has any questions relating to the anti-discrimination provision, it should contact OSC at 1-800-255-7688 or 1-800-237-2515 (TDD).

12. The Employer agrees to record the case verification number on the employee's Form I-9 or to print the screen containing the case verification number and attach it to the employee's Form I-9.

13. The Employer agrees that it will use the information it receives from the SSA or DHS pursuant to E-Verify and this MOU only to confirm the employment eligibility of newly-hired employees after completion of the Form I-9. The Employer agrees that it will safeguard this information, and means of access to it (such as PINS and passwords) to ensure that it is not used for any other purpose and as necessary to protect its confidentiality, including ensuring that it is not disseminated to any person other than employees of the Employer who are authorized to perform the Employer's responsibilities under this MOU.

14. The Employer acknowledges that the information which it receives from SSA is governed by the Privacy Act (5 U.S.C. § 552a (i) (1) and (3)) and the Social Security Act (42 U.S.C. 1306(a)), and that any person who obtains this information under false pretenses or uses it for any purpose other than as provided for in this MOU may be subject to criminal penalties.

15. The Employer agrees to allow DHS and SSA, or their authorized agents or designees, to make periodic visits to the Employer for the purpose of reviewing E-Verify -related records, i.e., Forms I-9, SSA Transaction Records, and DHS verification records, which were created during the Employer's participation in the E-Verify Program. In addition, for the purpose of evaluating E-Verify, the Employer agrees to allow DHS and SSA or their authorized agents or designees, to interview it regarding its experience with E-Verify, to interview employees hired during E-Verify use concerning their experience with the pilot, and to make employment and E-Verify related records available to DHS and the SSA, or their designated agents or designees. Failure to comply with the terms of this paragraph may lead DHS to terminate the Employer's access to E-Verify.

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ARTICLE III

REFERRAL OF INDIVIDUALS TO THE SSA AND THE DEPARTMENT OF HOMELAND SECURITY

A. REFERRAL TO THE SSA

1. If the Employer receives a tentative nonconfirmation issued by SSA, the Employer must print the tentative nonconfirmation notice as directed by the automated system and provide it to the employee so that the employee may determine whether he or she will contest the tentative nonconfirmation.
2. The Employer will refer employees to SSA field offices only as directed by the automated system based on a tentative nonconfirmation, and only after the Employer records the case verification number, reviews the input to detect any transaction errors, and determines that the employee contests the tentative nonconfirmation. The Employer will transmit the Social Security Number to SSA for verification again if this review indicates a need to do so. The Employer will determine whether the employee contests the tentative nonconfirmation as soon as possible after the Employer receives it.
3. If the employee contests an SSA tentative nonconfirmation, the Employer will provide the employee with a referral letter and instruct the employee to visit an SSA office to resolve the discrepancy within 8 Federal Government work days. The Employer will make a second inquiry to the SSA database using E-Verify procedures on the date that is 10 Federal Government work days after the date of the referral in order to obtain confirmation, or final nonconfirmation, unless otherwise instructed by SSA or unless SSA determines that more than 10 days is necessary to resolve the tentative nonconfirmation..
4. The Employer agrees not to ask the employee to obtain a printout from the Social Security Number database (the Numident) or other written verification of the Social Security Number from the SSA.

B. REFERRAL TO THE DEPARTMENT OF HOMELAND SECURITY

1. If the Employer receives a tentative nonconfirmation issued by DHS, the Employer must print the tentative nonconfirmation notice as directed by the automated system and provide it to the employee so that the employee may determine whether he or she will contest the tentative nonconfirmation.
2. If the Employer finds a photo non-match for an alien who provides a document for which the automated system has transmitted a photo, the employer must print the photo non-match tentative nonconfirmation notice as directed by the automated system and provide it to the employee so that the employee may determine whether he or she will contest the finding.
3. The Employer agrees to refer individuals to DHS only when the employee chooses to contest a tentative nonconfirmation received from DHS automated verification process or when

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the Employer issues a tentative nonconfirmation based upon a photo non-match. The Employer will determine whether the employee contests the tentative nonconfirmation as soon as possible after the Employer receives it.

4. If the employee contests a tentative nonconfirmation issued by DHS, the Employer will provide the employee with a referral letter and instruct the employee to contact the Department through its toll-free hotline within 8 Federal Government work days.

5. If the employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will provide the employee with a referral letter to DHS. DHS will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.

6. The Employer agrees that if an employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will send a copy of the employee's Form I-551 or Form I-766 to DHS for review by:

- Scanning and uploading the document, or
- Sending a photocopy of the document by an express mail account (furnished and paid for by DHS).

7. The Employer understands that if it cannot determine whether there is a photo match/non-match, the Employer is required to forward the employee's documentation to DHS by scanning and uploading, or by sending the document as described in the preceding paragraph, and resolving the case as specified by the Immigration Services Verifier at DHS who will determine the photo match or non-match.

ARTICLE IV

SERVICE PROVISIONS

The SSA and DHS will not charge the Employer for verification services performed under this MOU. The Employer is responsible for providing equipment needed to make inquiries. To access the E-Verify System, an Employer will need a personal computer with Internet access.

ARTICLE V

PARTIES

This MOU is effective upon the signature of all parties, and shall continue in effect for as long as the SSA and DHS conduct the E-Verify program unless modified in writing by the mutual consent of all parties, or terminated by any party upon 30 days prior written notice to the others. Any and all system enhancements to the E-Verify program by DHS or SSA, including but not limited to the E-Verify checking against additional data sources and instituting new verification procedures, will be covered under this MOU and will not cause the need for a supplemental MOU that outlines these changes. DHS agrees to train employers on all changes made to E-Verify through the use of mandatory refresher tutorials and updates to the E-Verify manual. Even

Company ID Number: 47130

without changes to E-Verify, the Department reserves the right to require employers to take mandatory refresher tutorials.

Termination by any party shall terminate the MOU as to all parties. The SSA or DHS may terminate this MOU without prior notice if deemed necessary because of the requirements of law or policy, or upon a determination by SSA or DHS that there has been a breach of system integrity or security by the Employer, or a failure on the part of the Employer to comply with established procedures or legal requirements. Some or all SSA and DHS responsibilities under this MOU may be performed by contractor(s), and SSA and DHS may adjust verification responsibilities between each other as they may determine.

Nothing in this MOU is intended, or should be construed, to create any right or benefit, substantive or procedural, enforceable at law by any third party against the United States, its agencies, officers, or employees, or against the Employer, its agents, officers, or employees.

Each party shall be solely responsible for defending any claim or action against it arising out of or related to E-Verify or this MOU, whether civil or criminal, and for any liability wherefrom, including (but not limited to) any dispute between the Employer and any other person or entity regarding the applicability of Section 403(d) of IIRIRA to any action taken or allegedly taken by the Employer.

The employer understands that the fact of its participation in E-Verify is not confidential information and may be disclosed as authorized or required by law and DHS or SSA policy, including but not limited to, Congressional oversight, E-Verify publicity and media inquiries, and responses to inquiries under the Freedom of Information Act (FOIA).

The foregoing constitutes the full agreement on this subject between the SSA, DHS, and the Employer.

The individuals whose signatures appear below represent that they are authorized to enter into this MOU on behalf of the Employer and DHS respectively.

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify Operations at 888-464-4218.

Employer Thompson Tractor Co., Inc.

Frank M Wright

Name (Please type or print)

Title

Electronically Signed

07/11/2007

Signature

Date

Department of Homeland Security – Verification Division

Company ID Number: 47130

**INFORMATION REQUIRED
FOR THE E-VERIFY PROGRAM**

Information relating to your Company:

Company Name: Thompson Tractor Co., Inc.

Company Facility Address: 2401 Pinson Highway
Birmingham, AL 35217

Company Alternate Address: P.O. Box 10367
Birmingham, AL 35202-0367

County or Parish: JEFFERSON

Employer Identification Number: 630377478

North American Industry
Classification Systems Code: 423

Parent Company: _____

Number of Employees: 1,000 to
2,499 Number of Sites Verified for: 5

Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State.

- GEORGIA 5 site(s)

Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

Name:	Kimberly A Stark	
Telephone Number:	(205) 849 - 4279	Fax Number: (205) 849 - 4565
E-mail Address:	kimberlystark@thompsontractor.com	
Name:	Frank M Wright	
Telephone Number:	(205) 849 - 4267	Fax Number: (205) 849 - 4854
E-mail Address:	frankwright@thompsontractor.com	

Company ID Number: 47130

**INFORMATION REQUIRED
FOR THE E-VERIFY PROGRAM**

Information relating to your Company:

Company Name: Thompson Tractor Co., Inc.

Company Facility Address: 2401 Pinson Highway
Birmingham, AL 35217

Company Alternate Address: P.O. Box 10367
Birmingham, AL 35202-0367

County or Parish: JEFFERSON

Employer Identification Number: 630377478

North American Industry
Classification Systems Code: 423

Parent Company: _____

Number of Employees: 1,000 to
2,499 Number of Sites Verified for: 5

Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State.

- GEORGIA 5 site(s)

Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

Name: Kimberly A Stark
Telephone Number: (205) 849 - 4279 Fax Number: (205) 849 - 4565
E-mail Address: kimberlystark@thompsontractor.com

Name: Frank M Wright
Telephone Number: (205) 849 - 4267 Fax Number: (205) 849 - 4854
E-mail Address: frankwright@thompsontractor.com

Company ID Number: 47130

USCIS Verification Division

Name (Please type or print)

Title

Electronically Signed

07/11/2007

Signature

Date