

#### Engine

Engine Model – U.S. EPA Tier 4 Final/ EU Stage IV/Japan 2014 (Tier 4 Final)/ Korea Tier 4 Final Cat<sup>®</sup> C18 ACERT™ Gross Power - SAE J1995 381 kW Net Power - ISO 14396 376 kW

511 hp 504 hp Weights Rated Payload **Body Capacities** 

Heaped SAE 2:1

41 tonnes 45.2 tons 25 m<sup>3</sup> 32.7 yd3

#### 745C Articulated Truck Key Features

- Cat C18 ACERT engine meets Tier 4 Final/ Stage IV engine emission standards
- Cat engine compression brake
- Automatic Retarder Control (ARC)
- Advanced Productivity Electronic Control Strategy (APECS)
- Enhanced Automatic Traction Control (ATC)
- Color Multi-Purpose Display (CMPD)
- New design dump body with increased capacity
- Hill Assist
- Waiting Brake
- Site Speed Limiting
- Integrated Technologies Cat Production Measurement, Product Link<sup>™</sup>/VisionLink<sup>®</sup>
- High Density Power Shift (HDPS) transmission with matched OTG
- All axle wet brakes
- Wide tire option

The reference to Tier 4 Final/Stage IV includes U.S. EPA Tier 4 Final, EU Stage IV, Japan 2014 (Tier 4 Final), as well as Korea Tier 4 Final. The reference to Tier 4 Interim/Stage IIIB will include U.S. EPA Tier 4 Interim, EU Stage IIIB, and Japan 2011 (Tier 4 Interim) throughout the rest of this document.

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The Cat 745C with a 25 m<sup>3</sup> (32.7 yd<sup>3</sup>) 41 tonnes (45.2 tons) increased capacity offers proven reliability, durability, high productivity, superior operator comfort and lower operating costs.

With a focus on high productivity, the 745C has many updated and improved features, an all new power train and new ease of operation features including Automatic Retarder Control.

# **Engine** Optimized performance, proven reliability





Every Tier 4 Final/Stage IV Cat engine with ACERT Technology is equipped with a combination of proven electronic, fuel, air and aftertreatment components. The right technologies fine-tuned for the right applications result in:

- Improved fluid efficiency of up to 5% improvement over Tier 4 Interim/Stage IIIB products (including Diesel Exhaust Fluid consumption).
- High machine performance across a variety of applications.
- Enhanced reliability through commonality and simplicity of design.
- Maximized uptime and reduced cost with world-class support from the Cat dealer network.
- Minimized impact of Emission Systems: designed to be transparent to the operator without requiring interaction.
- Durable designs with long life to overhaul.
- Delivering better fuel economy with minimized maintenance costs while providing the same great power and response.

#### Advanced MEUI<sup>™</sup>-C Injector

Advanced MEUI-C injector platforms deliver increased injection pressures and more precise fuel rates. These durable injectors enhance responsiveness while controlling soot.

#### **Innovative Air Management**

Cat Tier 4 Final/Stage IV engines feature innovative air-management systems that optimize airflow and enhance power, efficiency and reliability.

#### Cat NO<sub>X</sub> Reduction System (NRS)

The NRS captures and cools a small quantity of exhaust gas, then routes it back into the combustion chamber where it drives down combustion temperatures and reduces  $NO_X$  emissions.

#### **Aftertreatment Technologies**

The aftertreatment solution utilized for Tier 4 Final/ Stage IV products is the next evolutionary step for Cat engines with ACERT Technology. To meet the additional 80% reduction in  $NO_X$  emissions required by Tier 4 Final/Stage IV emission standards, Caterpillar engineers only needed to add one new system to the already proven aftertreatment solution in use, Selective Catalytic Reduction (SCR).

#### **Diesel Exhaust Fluid (DEF)**

Cat engines equipped with a Selective Catalytic Reduction (SCR) system inject Diesel Exhaust Fluid (DEF) into the exhaust to reduce  $NO_X$  emissions. DEF is a precisely mixed solution of 32.5% high purity chemical grade urea and 67.5% de-ionized water.

#### **Engine Compression Brake**

The engine compression brake improves retarding response and increases retarding power for controlled descent of grades.



The new Cat High Density Power Shift (HDPS) nine-speed forward two-speed reverse transmission, designed specifically for Articulated Trucks, features Advanced Productivity Electronic Control Strategy (APECS) and Electronic Clutch Pressure Control (ECPC) which deliver smooth gear changes with improved acceleration and higher productivity.

Rimpull has been increased in both forward and reverse.

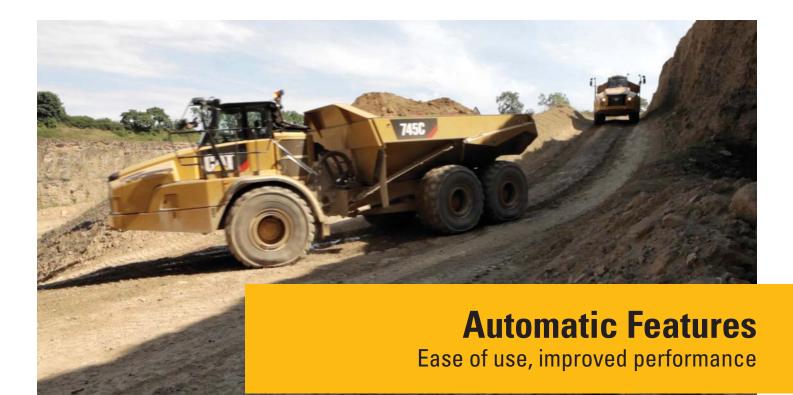
Speed hold/limiting function allows the machine speed to be limited in 1 km/h or 1 mph steps to conform to site speed restrictions.

Gearshifts have been significantly improved to maintain direct drive lock-up, and limit dropping into converter drive. Reducing the use of torque converter drive helps maintain ground speed and gradeability.

Variable shift points used based on the operating conditions, which also aid in maintaining ground speed during gear changes on grades.

#### **Torque Converter**

Larger diameter torque converter, configured for off highway applications, allows the higher engine power to be transmitted more efficiently to the lower power train.



#### **Automatic Traction Control (ATC)**

The ATC system successfully introduced on the B Series has been further enhanced for even better performance. Application of the inter and cross-axle differential locks is 'on-the-go' and fully automatic. The operator does not have to think about when and where to engage either diff lock. Sensors monitor the machine and wheel speeds, enabling instant response in low traction conditions. Operation is seamless and smooth, eliminating wheel slip for maximum traction and therefore productivity.

Clutches are automatically disengaged when ground conditions allow, maximizing efficiency when steering or on uneven ground.

ATC reduces tire and driveline abuse, eliminating lost efficiency caused by improper manual operation of the differential clutches, and reducing the cost of premature tire replacement.

#### **Automatic Retarder Control (ARC)**

In automatic mode, use of the retarder is much easier for the operator. As with ATC a number of machine operating aspects are monitored, and if required the engine compression brake is engaged automatically. The system can help towards eliminating engine overspeed, improving safe machine operation and reducing cycle times, yet still with the flexibility of manual control if needed.

#### Regeneration

When set to automatic, regeneration will occur without any interaction from the operator. The three modes of regeneration shown below allow the articulated truck to adapt to specific site conditions in the most efficient manner.

**Automatic:** The machine carries out 'on-the-go' regeneration when the engine control module determines conditions are acceptable. The operator requires no action and the articulated truck is not required to stop working.

**Automatic:** Low idle regeneration is initiated when the machine is in a reduced operating mode for a predetermined period of time, and a number of conditions are met. The system is designed so that the operator can interrupt regeneration at any time.

**Manual:** A manual regeneration is initiated by pressing the regeneration switch for five seconds. The machine must be brought to a non-operating mode in order to perform a manual regeneration.

# **Suspension and Braking**

Performance with comfort



#### **Front Suspension**

The three-point front suspension oscillates  $\pm 6^{\circ}$  to provide a smooth ride, allowing the operator to travel at speed over rough terrain and softening impact loads on structures and components. Large bore, low-pressure cylinders are purposely designed for tough applications and offer a soft, smooth ride.

#### **A-Frame Construction**

The front suspension uses an oscillating A-frame with a lateral tie rod to control axle sideways movement and stability.

#### **Rear Suspension**

Features a walking beam with Caterpillar designed rear suspension mounts, which have long life and provide a reliable, and stable ride for excellent load retention.

#### **Mounting Points**

Suspension mounting points are integrated into the axle housing, increasing reliability.

#### **All Axle Enclosed Wet Brakes**

Provide smoother retarding and braking, with improved holding in slippery conditions and on grades.

#### **Hill Assist**

Eliminates potential 'roll-back' on grades. If an operator stops the machine on a grade, when taking his foot off the service brake pedal the machine will automatically hold the service brakes on for a number of seconds to prevent the machine from rolling backwards.



#### **Ride Comfort**

The three-point front suspension with its oscillating axle and low-pressure ride struts, combined with the center-mounted cab, offers unrivaled levels of ride comfort for the operator in all driving conditions. The operator remains comfortable and productive throughout the day.

### Operator Environment Improved productivity with a comfortable and confident operator

#### **Spacious Two-Person Cab**

The large two-person cab, offers a comfortable working space for both the operator and a passenger. The passenger seat is fully padded with a backrest and a wide, retractable seat belt for a secure and comfortable ride. It is also positioned adjacent to the operator, giving both the operator and passenger a clear view of the instrument panel, controls and the road. The storage space behind the operator seat has been increased, and access improved. The design and layout is common across all C Series Articulated Trucks.

#### **Air Suspension Seat**

The air suspension seat provides improved operator comfort with a cushioned upper high back, adjustable damping with three settings, ride zone indicator and adjustable lumbar settings. It is fully adjustable to provide the optimal driving position.

#### **Cab Atmosphere**

The air conditioning system helps to keep you comfortable whatever environment you are operating in.

#### **Waiting Brake**

As the name implies, anywhere you are waiting you can use this feature to remove the need for repeated application of the parking brake. For example, if you are holding the machine on a grade, in a loading or dump area, select neutral and press the yellow button on the gear select cane. This will automatically apply the service brakes, without the need to apply the park brake. To disengage, put the machine in gear and the brakes are automatically released.

# **Ease of Operation** Designed around the operator









#### **Control Layout**

The cab is designed to make all aspects of machine operation as simple as possible. The controls and gauges are easy to read and straightforward to operate, the controls and gauges allow the operator to focus on safe machine operation while maintaining productivity.

#### Dashboard

The integrated wrap-around dash puts all controls within easy reach of the operator. Featuring LED illuminated rocker switches for the dash dimmer, rear wash wiper, hazard warning, work lamp, secondary steer, A/C and cigar lighter. Delivers an automotive feel with the industrial strength you would expect from Caterpillar.

#### Color Multi Purpose Display (CMPD)

The dash mounted display unit shows the operator various levels of performance and condition pages as well as machine warning categories. These include performance data, configuration settings, operator and machine totals, service information, various machine status parameters, machine payload Information (when fitted), and the video feed from the rearview camera.

#### Bluetooth<sup>™</sup> Stereo Connectivity

Make and receive calls via Bluetooth equipped mobile.



# **Durability and Reliability** Proven structures and components

#### **Front Frame**

The front frame design features a large box section and wide, stiff frame beams to handle torque loads. The divergent frame design decreases stress in the hitch area and optimizes suspension geometry. The frame design makes maximum use of robotic welding for increased durability.

#### **Rear Frame**

Twin-box construction minimizes stress concentrations and provides low weight with long service life.

#### **Suspension**

The three-point oscillating axle front suspension provides unparalleled ride quality. It also protects the truck from adverse road conditions by absorbing shock loads that would reach the frame.

#### Articulating/Oscillating Hitch

The articulating hitch provides the truck with steering articulation, and the oscillation ensures all-wheel ground contact in rough terrain.

#### **Hitch Construction**

Field proven two-piece construction features a durable cast steel head bolted to a hard wearing forged steel tube.

#### **Dump Body Design**

The 745C has a large target area to provide consistently high load-carrying capacity. Its diverging flow design gives clean material discharge, which maximizes production and avoids the waste of carry-back.

#### **Output Transfer Gear**

Distributes drive to the tractor and trailer and includes an automatic wet clutch differential lock for optimum traction in poor underfoot conditions.

#### **Service Brakes**

Dual-circuit, all wheel braking system. The full power hydraulic system actuates enclosed, oil immersed, multi plate brakes with independent front and rear circuits and accumulators.

#### **Parking Brake**

Located on the center axle in an elevated position, it is spring applied and hydraulically released.

# **Integrated Technologies**

Monitor, manage, and enhance job site operations





#### **LINK Technologies**

LINK technologies, like Product Link wirelessly connect you to your equipment, giving you valuable insight into how your machine or fleet is performing. The system tracks location, hours, fuel usage, productivity, idle time, and diagnostic codes through the online VisionLink user interface so you can make timely, fact-based decisions to maximize efficiency, improve productivity, and lower costs.

#### **PAYLOAD** Technologies

PAYLOAD technologies like Cat Production Measurement bring payload weighing to the cab to help optimize job site efficiency and productivity. Operators can view real-time load weights on the integrated display and know precisely when target is achieved, while cab-mounted external payload lights signal the loader operator when to stop loading to reduce overloading. Operators can track daily productivity from the cab, with quick access to truck payload weights, loads and cycle counts, and daily totals; or remotely via LINK technologies.

CAT CONNECT makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offers improvements in these key areas:



MANAGEMENT

**Equipment Management** – increase uptime and reduce operating costs.



**Productivity** – monitor production and manage PRODUCTIVITY job site efficiency.



Safety - enhance job site awareness to keep your people and equipment safe.





# **Serviceability** Maximize uptime and reduce costs

#### **Long Service Intervals**

Long oil change intervals, volumes and the type of oil required will help lower maintenance costs and machine downtime.

#### **Lubrication Points**

Lubrication points are grouped in the hitch area for ease of servicing. Universal joints are lubed for life, eliminating any maintenance. An Autolube system is also optional, and now includes alerts via Product Link for low grease levels.

#### **Service Points**

Mounted on the left side of the engine under the electrically raised hood:

- Engine dipstick and fill cap
- Transmission dipstick and fill cap
- Air, fuel water separator and fuel filters
- Electrically operated fuel-priming pump
- Coolant level indicator and fill cap are outside the cab

#### Radiator

The radiator package is located behind the cab, which provides protection from frontal impacts and offers easy access to the inlet and outlet sides of the radiator.

#### **Extended Life Coolant**

Extends the change interval and improves component life by reducing aluminum corrosion.

#### **Electrical Service Center**

Located inside the cab, this service center provides a power port, diagnostic connector and Cat Data Link connector.

#### **Cat Data Link Connector**

The Cat Data Link connector provides a plug-in using a laptop with Electronic Technician (ET) software.

#### **Service Access**

The cab tilts to the side to provide easy access underneath, which simplifies access to the transmission, drive shafts and hydraulic pumps. Machine electrical and hydraulic interfaces are located on the right side of the cab, behind a removable body panel for easy access.

#### **Truck Transport**

The suspension system eliminates the need to lower the suspension when transporting the truck, reducing maintenance and downtime.



# Complete Customer Support A commitment to your success

#### Selection

Make comparisons of the machines you are considering before you buy. Your Cat dealer can help.

#### **Purchase**

Consider the resale value; compare productivity and day-to-day operating costs and fuel consumption.

#### **Operation**

For the best operating techniques to increase productivity and your profit, turn to your Cat dealer for the latest training literature and trained staff.

#### Maintenance

Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as  $S \cdot O \cdot S^{SM}$  and Technical Analysis help you avoid unscheduled repairs.

#### Replacement

Repair or rebuild? Your Cat dealer can help you evaluate the costs so you can make the right choice.

#### **Product Support**

Your local Cat dealership will be with you every step of the way with its unsurpassed worldwide parts support, trained technicians and customer support agreements.

#### cat.com

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



# **Sustainability** Making sustainable progress possible

All Cat Articulated Trucks are designed to maximize efficiency and productivity while conserving natural resources.

#### **Oil Volumes**

The amount of both hydraulic and engine oil required has been lowered, reducing waste oil disposal.

#### **Air Quality**

The Cat C18 ACERT engine incorporating the Cat Clean Emission Module (CEM) meets Tier 4 Final/Stage IV emission standards, and has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel or biodiesel blended with ULSD. All fuels must have no more than 15 ppm sulfur.

#### **Recycle Waste**

The Caterpillar Design, Manufacturing, Assembly and Test Site at Peterlee in England recycle 98% of all waste produced with zero waste to landfill.

#### **Second Life**

Rebuild and reman are designed and built in to all Cat C Series Articulated Trucks. This gives machines a longer life while reducing waste and replacement costs.



# **Safety** Designed and built into every machine

#### **Product Safety**

Caterpillar has been and continues to be proactive in developing machines that meet or exceed safety standards. Safety is an integral part of all machines and system designs.

#### **Safety Features**

- Cab integral ROPS (Roll Over Protection System) and FOPS (Falling Object Protection System)
- Rearview camera system incorporated into the CMPD, can provide a continuous panoramic rear view or when reverse gear is selected
- The secondary and parking brake functions are spring applied and hydraulic released
- Electro-hydraulic secondary steering system automatically activates in forward/reverse or when stationary if low pressure is sensed. Can be manually selected for machine recovery purposes.
- Ground level external engine fuel cut off switch provides easy access outside of the machine
- External electrical system disconnect switch for easy access from outside of the machine
- Slip resistant walkways punched steel plate
- 75 mm (3 in) wide seat belts for operator/trainer and passenger
- Wide angled mirrors for excellent rear visibility
- Sweeping hood design for panoramic forward visibility
- Extensive handrails
- Body raised visual indicator
- Heated mirrors (optional)
- LED-flashing beacon (optional)
- Additional mirrors
- Maximum speed limiter
- Multiple camera option
- Internal and external grab handles
- Fire extinguisher in-cab mounting point
- Fully raised body locking pin
- Reversing indicator
- Park brake switch safety lock

Engine		
Engine Model	Cat C18 AG	CERT
Gross Power – SAE J1995	381 kW	511 hp
Net Power – SAE J1349	370 kW	496 hp
Net Power – ISO 14396	376 kW	504 hp
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,106 in <sup>3</sup>

• The power ratings apply at rated speed of 1,700 rpm when tested under the conditions for the specified standard.

- The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler and fan at minimum speed.
- Net power when the fan is at maximum speed is 348 kW (467 hp) per the SAE reference conditions.
- The 745C meets Tier 4 Final/Stage IV emission standards.
- DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1. ISO 22241-1 requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

No Engine De-rating Required Below	3050 m	10,000 ft
Peak Engine Torque Gross	2618 N·m	1,931 lbf-ft
(SAE J1995)		
Peak Engine Torque Net (SAE J1349)	2558 N·m	1,887 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

#### Weights

Rated Payload

41 tonnes 45.2 tons

#### **Body Capacities**

Heaped SAE 2:1	25 m <sup>3</sup>	32.7 yd <sup>3</sup>
Struck	18.5 m <sup>3</sup>	24.2 yd <sup>3</sup>
Tailgate Heaped SAE 2:1	26.5 m <sup>3</sup>	34.7 yd <sup>3</sup>
Tailgate Struck	19.5 m <sup>3</sup>	25.5 yd <sup>3</sup>

#### Transmission

Forward 1	6.1 km/h	3.8 mph
Forward 2	8.1 km/h	5 mph
Forward 3	11.2 km/h	7 mph
Forward 4	14.1 km/h	8.8 mph
Forward 5	18.7 km/h	11.6 mph
Forward 6	22.9 km/h	14.2 mph
Forward 7	31.5 km/h	19.6 mph
Forward 8	37.9 km/h	23.5 mph
Forward 9	54.8 km/h	34 mph
Reverse 1	6.4 km/h	4 mph
Reverse 2	14.6 km/h	9.1 mph

#### Sound Levels

Interior Cab

79 dB(A)

- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 76 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/ windows open) for extended periods or in noisy environments.

#### **Operating Weights**

Front Axle – Empty	19 770 kg	43,585 lb
Center Axle – Empty	6940 kg	15,300 lb
Rear Axle – Empty	6690 kg	14,749 lb
Total – Empty	33 400 kg	73,634 lb
Front Axle – Rated Load	5990 kg	13,007 lb
Center Axle – Rated Load	17 550 kg	38,691 lb
Rear Axle – Rated Load	17 550 kg	38,691 lb
Total – Rated Load	41 000 kg	90,389 lb
Front Axle – Loaded	25 670 kg	56,593 lb
Center Axle – Loaded	24 490 kg	53,991 lb
Rear Axle – Loaded	24 240 kg	53,440 lb
Total – Loaded	74 400 kg	164,024 lb

#### **Body Plate**

High strength Brinell HB450 wear resistant steel

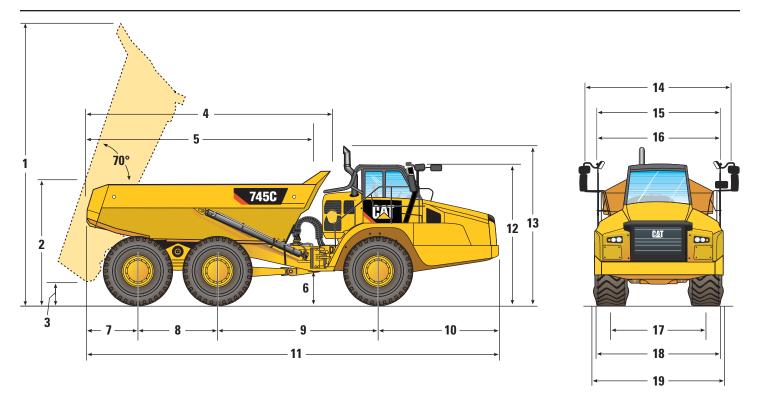
#### **Service Refill Capacities**

Fuel Tank	550 L	145.3 gal
DEF Tank	25 L	6.6 gal
Cooling System	90 L	23.7 gal
Brake Cooling Tank	67 L	17.69 gal
Steering/Hoist Hydraulic System	140 L	36.9 gal
Engine Crankcase	52 L	13.7 gal
Transmission/OTG	75 L	19.8 gal
Final Drives (Each)	5 L	1.3 gal
Axles (Each)	60 L	15.8 gal
Body Hoist		
Raise Time	12 Second	ls
Lower Time	8 Seconds	3
Standards		
Brakes	ISO 3450	- 2011

DIAKES	130 3430 = 2011
Cab/FOPS	ISO 3449 Level II – 2005
Cab/ROPS	ISO 3471 – 2008
Steering	ISO 5010 – 2007

#### Dimensions

All dimensions are approximate.



mm

11 429

11 555

3746

4041

4166

3422

3774

2687

3370 3530 ft/in

37'5"

37'10"

12'3"

13'3"

13'8"

11'2"

12'4"

8'9" 11'0"

11'6"

	mm	ft/in	
1	7302	22'11"	11 *
2	3165	10'4"	**
3	772	2'6"	12
4	6447	21'1"	13
5	5889	19'3"	14
6	579	1'10"	15 ***
7	1458	4'9"	16 ****
8	1966	6'5"	17 †
9	4590	15'0"	<b>18 ††</b>
10	3415	11'2"	<b>19 †††</b>

* 0AL
** OAL with Tailgate
*** Body Width
**** With Tailgate
† Track Width
tt Over Fenders

ttt Over Tire Bulge

Unladen dimensions with 29.5R25 standard tires.

#### **Turning Circle**

Dimensions are for machines equipped with 29.5R25 tires.

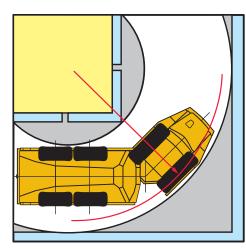
#### Turning dimensions

Steer Angle – left/right	45	0
SAE Turning Radius	8624 mm	340 in
Clearance Radius	9082 mm	358 in
Inside Radius	4413 mm	174 in
Aisle Width	5961 mm	235 in

#### Steering

#### Lock to Lock

4.8 seconds @ 60 rpm



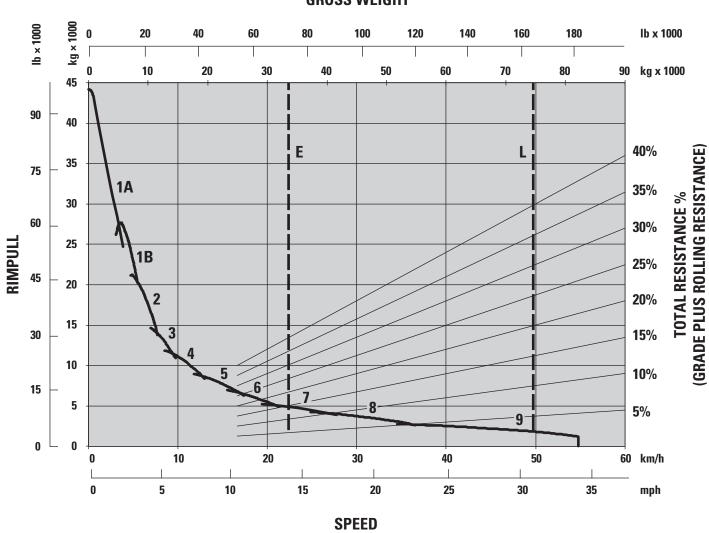
#### **Optimal Loader/Truck Pass Matching**

Hydraulic Excavators	390F	374F		349E
Passes	3-4	4-5		5-6
Wheel Loaders	988K	980M	972M	966M
Passes	4	5	5-6	6

An optimum system match gives you a major productivity advantage. The 745C is an excellent match for the Cat 390F, 374F and 349E Hydraulic Excavators; and Cat 966M, 972M, 980M and 988K Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

#### Gradeability/Speed/Rimpull

To determine performance, read from Gross Weight down to % Total Resistance. Total Resistance equals actual % grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Maximum Speed. Usable Rimpull depends on traction available.



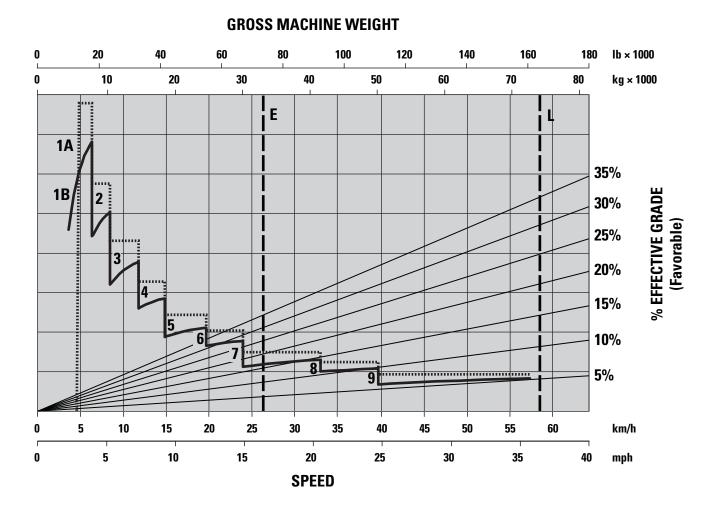
#### STANDARD\* GROSS WEIGHT

- 1A 1st Gear (Converter Drive)
- 1B 1st Gear (Direct Drive)
- 2 2nd Gear
- 3 3rd Gear
- 4 4th Gear
- 5 5th Gear
- 6 6th Gear
- 7 7th Gear
- 8 8th Gear
- 9 9th Gear

- E Empty 33 400 kg (73,635 lb)
- L Loaded 74 400 kg (164,024 lb)
- \* at sea level

#### **Retarding Performance**

To determine performance, read from Gross Weight down to % Effective Grade. Effective Grade equals actual % favorable grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Maximum Speed. Retarding effect on these curves represents full application of the retarder.



- 1A 1st Gear (Converter Drive)
- 1B 1st Gear (Direct Drive)
- 2 2nd Gear
- 3 3rd Gear
- 4 4th Gear
- 5 5th Gear
- 6 6th Gear
- 7 7th Gear
- 8 8th Gear
- 9 9th Gear

E – Empty 33 400 kg (73,635 lb)

L – Loaded 74 400 kg (164,024 lb)

\* at sea level

#### **Standard Equipment**

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

- Air conditioning with R134A refrigerant
- Adjustable air vents
- Auto shift nine-speed forward and two reverse transmission
- Reverse alarm
- Cat C18 ACERT engine
- · Cat rearview camera
- Cat Clean Emission Module (CEM) and exhaust after treatment package
- Color Multi-Purpose Display (CMPD) incorporating the rearview camera feed
- Differentials: standard with automatic clutched inter and cross-axle differential locks
- Dual circuit oil immersed, enclosed brakes all wheels
- Electrical system: 24 volt, 5A 24- to 12-volt converter
- Electro hydraulic hoist control
- Glass windows: laminated and tinted-front toughened and tinted-sides and rear
- Guards: rear window, radiator, crankcase and axle
- Heater and defroster with four-speed fan
- Horn: electric
- Lights: cab interior, front, width marker, side, rear, two reversing/work light, two stop/tail lights, front and rear direction indicators

- Mirrors: Extensive arrangement for improved visibility
- Mud flaps: wheel arch and body mounted with transportation tiebacks
- Product Link: PL321 or PL522 dependent on location and licensing agreement
- Retarder: engine compression brake
- ROPS/FOPS cab, machine operation monitoring system includes:
- Action lamp, engine oil pressure, primary steering system, left turn signal, high beam, coolant temperature, tachometer, parking brake, fuel level, right turn signal, transmission oil temperature, brake system, transmission hold, hoist control, hydraulic system, charging system, retarder, transmission fault, traction control system, check engine lamp
- Liquid Crystal Display (LCD)
- Alert indicator, selected gear and direction, speed or auto shift, review Operation and Maintenance Manual (OMM), primary steering failure, seat belt warning, secondary steering failure, DPF regeneration filter, Machine Security System (MSS), secondary steering energy source engaged, hour meter and retarder active

- Seat, fully adjustable, air suspension
- Seat, padded companion/trainer
- Secondary steering electro hydraulic
- S·O·S sampling valves
- Spill guard, front, integral part of fabricated body
- Starting receptacle, electric, remote
- Storage: cup holder, flask receptacle, under seat storage, door pocket, behind seat storage, coat hook.
- Sun visor
- Three axle, six-wheel drive
- Tilt and telescopic steering wheel
- Tires, six 29.5R25, radial
- Two seat belts, operator's retractable
- Vandalism protection: lockable caps for fuel tank and hydraulic oil tank
- Windows opening side, tinted
- Windshield wiper and washer, two speed, intermittent (front)
- Windshield wiper and washer, two speed (rear)

## 745C Optional Equipment

#### **Optional Equipment**

Optional equipment may vary. Consult your Cat dealer for details.

- Auto lube installation for automatic greasing of bearings
- Body liners
- Bluetooth radio stereo system.
- + Cold weather coolant –51° C (–60° F)
- Cold weather start attachment
- Engine block heater
- Ether start

- Exhaust heated body
- Fast fuel fill
- Flashing LED beacon
- Fuel additive-anti-waxing
- Heated seat
- Heated rearview motorized mirrors
- Machine Security System (MSS)
- Product Link: PL321, PL522, VIMS<sup>TM</sup> Cellular, VIMS Satellite (where available)
- Roof mounted High Intensity Discharge (HID) work lights
- Scissor tailgate
- 875/65 R29 wide tires
- Cat production measurement payload monitoring system

### Notes

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