

## 1 Destaques do Compactador de Aterros Sanitários:

- Componentes testados em campo e uma tradição de projetos para o setor de lixo, os Compactadores de Aterros Sanitários Caterpillar® oferecem desempenho confiável para um ambiente hostil como esse.
- Os Compactadores de Aterros Sanitários Caterpillar têm projeto ergonômico para aumentar o conforto do operador. Com excelente área de visualização e recursos que oferecem excelente controle e facilidade de operação, os Compactadores de Aterros Sanitários Caterpillar oferecem o melhor ambiente de trabalho para o setor de lixo.
- Os Compactadores de Aterros Sanitários Caterpillar são projetados para garantir tempo parado mínimo através da facilidade de acesso de manutenção, pontos de manutenção agrupados e atenção às áreas de manutenção estratégicas. Tudo isso foi feito para que os Compactadores de Aterros Sanitários Caterpillar passem o tempo trabalhando, não sendo reparados.
- Projetados ergonomicamente para a saúde e a produtividade do operador, com controles leves de alavanca única, boa visibilidade e a melhor cabine da categoria.
- Recursos de segurança que protegem o pessoal em trabalho no compactador e ao redor dele.

## Compactador para Aterro Sanitário 816F Series 2

Um Mundo, Uma Máquina. O Compactador de Aterro Caterpillar® 816F Series 2 oferece... excelente proteção contra lixo, maior produtividade, excelente estabilidade da máquina e conforto do operador, atendendo aos regulamentos de emissões da Agência de Proteção Ambiental dos E.U.A. mundiais Tier 3 e Estágio IIIA EU de Diretriz de Emissões 97/68/EC. Combine tudo isso com o melhor sistema de suporte ao cliente do mundo através da rede de representantes Caterpillar e você chega aos menores custos operacionais com o maior tempo em atividade do setor.

### Engine

Potência Bruta	189 kW
Net Power	173 kW
Modelo do Motor	Caterpillar® C9 ACERT™
Potência Líquida ISO 3046-2	173 kW
Potência Líquida ISO 9249	175 kW
SAE J1349	173 kW
EEC 80/1269	175 kW
Aumento de Torque	19 %
Diâmetro Interno	112 mm
Curso do Pistão	149 mm
Cilindrada	8.8 L

### Transmissão

1ªAvante	5.6 km/h
2ª Avante	9.5 km/h
1ª à Ré	6.3 km/h
2ª à Ré	10.6 km/h

### Sistema Hidráulico

Saída da Bomba de Palhetas a 2.015 RPM e 6.900 kPa (1000 lb/pol²)	112 L/min
Ajuste da Válvula de Alívio	15500 kPa
Diâmetro Interno do Curso de Levantamento x Curso	120,65 mm x 913,9 mm 4,75 pol x 36 pol

### Axles

Front	Fixo
Oscillating Rear	±8°

### Freios

Padrões	Atende aos regulamentos da OSHA
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### Rodas - Dentes de Pontas Plus com Material Resistente à Abrasão (MRA).

Largura do Tambor	1016 mm
Diâmetro do Tambor	1300 mm
Pontas por Roda	20

### Wheels - Chevron-Pattern, Chopper Blades

Drum Width	1016 mm
Drum Diameter	1300 mm
Blades per Wheel	20

### Lâmina Reta

Largura entre os Cantos de Lâmina	3657 mm
Comprimento da Armação da Lâmina	3556 mm
Altura	1914 mm

### Capacidades de Reabastecimento de Manutenção

Tanque de Combustível	446 L
Sistema de Arrefecimento	55 L
Cárter	34 L
Transmissão	50 L
Diferenciais e comandos finais - Dianteiros	43 L
Diferenciais e comandos finais - Traseiros	43 L
Sistema Hidráulico (Incluindo o Tanque)	137 L
Tanque do Óleo Hidráulico	88 L

### Pesos

Peso em Operação	23748 kg
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### Cabine

Estrutura ROPS/FOPS	Atende aos padrões SAE e ISO.
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### Nível de Ruído

Padrões	Atende aos padrões requeridos de ruídos
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### Especificações de Operação

Altura Livre	456 mm
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### Dimensões

Altura até o topo da cabine com Ar Condicionado	3801 mm
Altura até o Topo do Cano de Escape	3462 mm
Altura até o Topo do Capô	2489 mm
Vão Livre do Solo ao Pára-choque	804 mm
Vão Livre do Solo às Barras Limpadoras	650 mm
Linha Central do Eixo Traseiro ao Pára-choque	1896 mm
Linha Central do Eixo Traseiro ao Engate	1675 mm
Distância entre Eixos	3350 mm
Comprimento com a Lâmina no Solo	7854 mm
Largura entre as Rodas	3338 mm
Largura entre os Cantos (Lâmina)	3657 mm
Raio de Curva Externo - Cantos de Lâmina	6464 mm
Largura da Lâmina Reta	3556 mm
Largura do Tambor	1016 mm
Ground Clearance	456 mm



#### **Proteção contra Lixo e Sistema de Arrefecimento**

Projetado para manter a operação ativa em uma das aplicações mais difíceis de equipamentos pesados ... o aterro sanitário de resíduos sólidos.

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#### **Pontas e Rodas**

A Caterpillar oferece uma seleção de pontas e lâminas soldadas em suas próprias rodas de aço que vai atender as suas necessidades. Não importa qual seja sua escolha, ela faz parte do sistema total que nossos compactadores oferecem: máxima produção, desempenho e compactação.

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#### **Trem de Força**

O trem de força torna o desempenho confiável numa característica padrão.

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#### **Lâminas para Aterros Sanitários**

Encontram-se disponíveis várias opções de lâminas para atender suas necessidades de espalhamento e trabalho com lâmina.

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#### **Posto do Operador**

Conforto e controle - uma cabine do operador de qualidade superior ajuda a maximizar a produtividade.

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#### **Facilidade de Manutenção**

Se a manutenção for simples e acessível, ela será feita.

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#### **Suporte Total ao Cliente**

Quando você compra uma máquina Caterpillar, recebe também o compromisso total da Caterpillar com o suporte ao cliente oferecido por verdadeiros especialistas em equipamentos para aterros sanitários... a rede de revendedores Caterpillar.

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### **816F SERIES 2 STANDARD EQUIPMENT**

#### **SISTEMA ELÉTRICO**

Alarme, marcha à ré

Alternador (80 amp)

Baterias, isentas de manutenção (2)

Conectores de diagnóstico

Sistema de iluminação, halogênio (dianteira, traseira e montada na cabine)

Sistema de partida e carga (24 Volts)

Tomada de partida para partidas de emergência

#### **AMBIENTE DO OPERADOR**

Travas do sistema de controle da lâmina

Cabine, pressurizada e com supressão de ruídos (ROPS/FOPS)

inclui antena, alto-falantes e conversor (12 volts, 10-15 amp)

Gancho para casaco

Acendedor de cigarros e cinzeiro

Sistema de Monitorização Caterpillar

Instrumentação, medidores

Temperatura do líquido arrefecedor do motor

Nível do combustível

Velocímetro/Tacômetro

Temperatura do óleo da transmissão

Temperatura do óleo hidráulico

Instrumentação, Indicadores de alarme

Temperatura da admissão de ar

Pressão do óleo dos freios

Baixa voltagem do sistema elétrico

Pressão do óleo do motor

Rotação excessiva do motor

Status do filtro de combustível

Status do freio de estacionamento

Pressão do Óleo de Direção

Status do filtro da transmissão

Luzes no teto (cabine)

Fusíveis, estilo lâmina (na cabine)
Aquecedor e desembaçador
Buzina elétrica (montada no volante)
Direção hidráulica
Porta-lancheira e porta copos
Espelhos retrovisores (montagem interna)
Assento, suspensão mecânica KAB
Cinto de segurança retrátil com largura de 76 mm (3 pol)
Limpadores/lavadores de pára-brisa com fluido (dianteiro e traseiro)
Limpador dianteiro intermitente
Ar condicionado, montado no teto
<b>TREM DE FORÇA</b>
Freios de discos totalmente hidráulicos, cobertos e arrefecidos a óleo
Freios, de estacionamento e secundário
Motor Caterpillar® C9 ACERT™
ATAAC e controlador ADEM A4
Bomba de escorva de combustível, (elétrica)
Silenciador
Radiador, Modular de Próxima Geração (NGMR)
Auxiliar de partida (a éter)
Conversor de torque
Transmissão, planetária (2 velocidades avante/2 velocidades em marcha à ré)
Controle Eletrônico da Pressão da Embreagem
Ventilador de arrefecimento do motor (sucção)
<b>OUTROS EQUIPAMENTOS DE SÉRIE</b>
Anéis retentores/acopladores Caterpillar
Mangueiras XT™
Capô, metálico com portas para manutenção com travas
Engate, barra de tração com pino
Arrefecedor de óleo hidráulico
Válvulas de amostras de óleo
Tampas com trava para proteção contra vandalismo
Rodas (1016 mm/40 pol) com Pontas Plus soldadas e extensões de aros
Arrefecedores
Óleo do motor
Óleo hidráulico
Óleo da transmissão
Barras limpadoras (todas as rodas)
<b>Protetores</b>
Cárter articulado
Trem de Força
Cilindro da direção
Eixo de comando
Eixo (dianteiro e traseiro)
Tanque de óleo hidráulico
<b>LÂMINA</b>
Lâmina, sistema hidráulico e articulação não estão incluídos nos equipamentos padrão
<b>ANTICONGELANTE</b>
Concentração de 50% pré-misturada do Líquido Arrefecedor de Vida Prolongada com proteção anticongelante até -34° C (-29° F).



# 816F Series 2

## Landfill Compactor



### Engine

Engine Model	Cat® C9 ACERT™	
Gross Power	189 kW	253 hp
Net Power	173 kW	232 hp

### Weights

Operating Weight	23 748 kg	52,364 lb
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- Machine configured with heaviest options, 80 kg (176 lb) operator and full fuel tank

## 816F Series 2 Landfill Compactor

*An extremely versatile machine, the 816F2 is built with uncompromising quality for operating in harsh landfill conditions.*

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### Trash Protection and Cooling System

- ✓ Numerous standard trash resistant features including our proven axle guard system and a sheet metal hood design combine with the Next Generation Modular Radiator to reduce production-robbing trash build-up and provide added cooling capacity. **pg. 4**

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### Tips and Wheels

Caterpillar® designed and manufactured steel wheels match the power train for the durability you expect. These, combined with standard Plus Tips or chopper wheels, will provide excellent traction and sidehill stability to offer the most productive and efficient compaction. **pg. 6**

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### Landfill Blades

Several blades are available through Cat® Work Tools and Services for dozing and spreading refuse to match your site requirements. **pg. 7**

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### Complete Customer Support

Your Cat dealer is your one safe source for all your equipment needs. They offer a wide range of services that will fit your operation and keep you working longer with lower costs. **pg. 14**

*One World...One Machine.  
The Cat® 816F Series 2 Landfill Compactor offers...Exceptional trash protection, Greater productivity, Excellent machine stability and operator comfort, while meeting U.S. Environmental Protection Agency Tier 3 emissions regulations and Stage IIIA EU Emissions Directive 97/68/EC. Combine all this with the finest customer support system in the world through the Caterpillar dealer network and you get the lowest operating costs with the best up-time in the industry.*





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### Power Train

- ✓ The Cat® C9 engine with ACERT™ Technology delivers maximum power and combines with the Electronic Clutch Pressure Control and planetary, powershift transmission to offer superior performance and reliability in landfill applications. **pg. 8**

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### Operator's Station

Operator comfort and productivity are maximized by excellent visibility, careful positioning of levers, switches and gauges, attention to air quality and sound control, as well as built-in storage for your operator's personal items. **pg. 10**

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### Serviceability

Many convenient features such as hinged service doors; accessible scheduled maintenance points; conveniently located sight gauges; in-cab, blade-type fuses and a separated cooling system make servicing easy. **pg. 12**



✓ *New Feature*



## Trash Protection and Cooling System

*Designed to keep your operation working in one of the toughest heavy equipment applications...the solid waste landfill.*



### Radiator and Cooling System.

The radiator and cooling system are designed specifically for the 816F2 landfill compactor operating at 100 percent engine load. At these conditions, the ambient capability is above the benchmark of 43° C (119° F), demonstrating the machine's purpose-built cooling system.

**Scoop Hood.** Angled and protected to prevent trash from collecting.

**Hinged Door.** Easy access for cleaning and service.

**High Radiator Air Inlet.** Helps prevent trash from entering the radiator area and maintaining proper airflow.

### Roof-Mounted Air Conditioner.

Makes the cooling package easier to clean because the A/C core is not located at the rear of the machine with other cores. Also reduces the frequency of condenser core cleaning, providing better cooling to the cab for longer periods of time.

### Radiator Precleaner Screen.

Prevents trash from entering radiator compartment, reducing clean-out time.

### Next Generation Modular Radiator (NGMR).

With parallel flow and six cores standard improves cooling capabilities. The tubes, header plate, tank and side sheets are brass and copper brazed for high joint integrity. The NGMR also features 6FPI trash resistant cores that prevent debris from building up and plugging the radiator.



### Swing-Out Hydraulic Oil Core.

Allows easy cleaning and inspection without tools.

**Suction Fan.** Allows ambient air to cool, providing better cooling capacity. It also pressurizes the engine compartment, preventing trash build up.



### Hydraulic Tank and Steering Cylinders.

The cylinders are guarded to resist damage, and the tank is armored for protection.



**Striker Bars.** Located in front of and behind the rear wheels and behind the front wheels provide substantial protection from trash that can be thrown or carried by the wheels.



**Standard Axle Guards.** Prevent trash build-up on the axles, protect the axle seal guards and help prevent duo-cone seal failure.



**Hinged Engine and Power Train Guards.** Help prevent trash build-up and shield components from demolition debris, trash, wire, rebar and harmful chemicals while allowing easy cleaning.

**Integral Rear Bumper.** Protects the radiator, fan, batteries and engine but allows for easy accessibility.



**Fuel Tank.** Is easy to reach and is positioned away from debris for protection and maximum capacity.



**Left Side Platform.** Rear cab access is easier with the left side platform.



**Optional Front Window Guard.** Prevents debris from damaging the lower portion of the front window with protection that goes across the bottom of the front cab glass.



**Optional Wheel and Tip Cleaner Fingers.** Welded onto the standard striker bars, these adjustable fingers keep the wheels from plugging when working in cohesive materials such as clay or mud.



## Tips and Wheels

*Caterpillar offers a choice of tips and blades welded on our own steel wheels that will fit your needs. No matter what your choice may be, it is part of the total system our compactors offer: maximum production, performance and compaction.*

**Standard Equipment.** The standard machine offering is the long-life Plus Tip that provides excellent traction and side-hill stability with a self-cleaning layout that resists plugging. The self-cleaning chopper blades for shredding material are optional. All choices are specifically designed for our Cat steel wheels.



**Plus Tips.** Plus Tips with Abrasion Resistant Material (ARM) have a plus-shaped design for superior compaction and sidehill stability on sloped material. A widely spaced 20 tip pattern requires fewer tips than other manufacturers and results in less plugging, lower replacement costs and maximum compaction. Plus Tips are guaranteed for 10,000 hours or four years of wear life. They offer the lowest cost per hour of any compactor tips in the industry.



**Self Cleaning Chopper Wheels.** The self cleaning chopper wheels are designed to deliver maximum compaction and traction. Aggressive chopping action is provided by 20 blades per wheel. Heat-treated DH-2™, ARM steel blades provide longer wear.

The staggered, chevron blade arrangement evenly distributes chopping coverage. Blade center gussets help assure maximum refuse demolition. Blades are mounted differently on the front and rear wheels to maximize chopping and compaction in both forward and reverse.

**Smooth Wheel Option.** If our tip selection does not meet your needs, consider Cat smooth steel wheels. This option ensures that no matter what landfill tip you prefer, you get Cat wheels built to our stringent specifications.

Our manufacturing and research engineers work together to design, build and test a complete power train system. The wheels, a critical component to the total system, are manufactured in the same facility as our landfill compactors. This ensures the entire system is complemented by each component.

Altering critical components can compromise our power train system that is designed for peak performance. If an off-the-shelf manufacturer's wheels are installed that do not meet our design specifications and do not balance the load over our final drives, bearing life could be reduced substantially and cause premature wear out of other components, resulting in unnecessary downtime. This situation runs contrary to the Caterpillar goal to keep our customers operating with maximum productivity, performance and compaction.

This wheel option also allows our standard axle guard system to work with the components for which it was designed.

## Landfill Blades

*Several blade options are available to match your spreading and dozing requirements.*



**Straight Blade.** The straight blade is a standard attachment and an ideal blade for most waste management applications.

- Built to withstand the rigors of heavy duty dozing
- Versatile blade for most applications
- Trash rack design provides excellent visibility
- Design incorporates Cat cutting edges

**U-Blade.** The U-blade dozes refuse while helping to retain load.

- Capacities and widths are set to achieve increased productivity
- Special design can spread cover material as well as doze refuse
- Wing angles up to 25 degrees help retain the load while dozing
- Top rack is designed to allow excellent operator visibility
- Cat cutting edges and ground engaging tools (G.E.T.) are standard

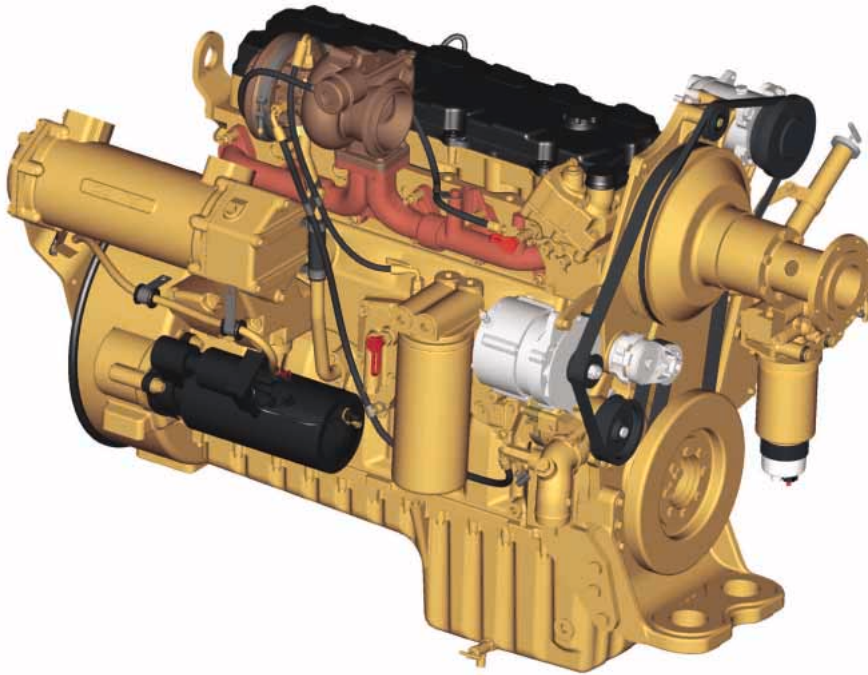
**Semi-U-Blade.** The Semi-U blade offers the spreading benefits of the straight blade but with the ends slightly angled in for U-blade benefits such as added control and carrying capabilities.

Contact Cat Work Tools and Services for more information on U-blades and Semi-U blades.



## Power Train

*The Cat power train makes dependable performance a standard feature.*



**Cat® C9 ACERT Engine.** The C9 engine with ACERT™ Technology delivers, at a rated speed of 2,100 rpm, net power of 173 kW (232 hp) and meets the U.S. Environmental Protection Agency Tier 3 emissions regulations and Stage IIIA EU Emissions Directive 97/68/EC. With high horsepower and low displacement, this innovative engine provides excellent fuel economy and durability which can significantly reduce operating costs.

**Torque Rise.** The electronically controlled, computer-actuated unit injection fuel system provides high injection pressure and more precisely controlled fuel delivery as the engine lugs back from rated speed, resulting in increased torque above the rated power during heavy loads on machine.

**ADEM™ IV Fuel System.** A Cat electronic control module provides improved engine response, performance, fuel efficiency, troubleshooting diagnostics and reduced emissions. It allows integration with the electronic transmission control for maximum power train efficiency.

**Turbocharger.** The turbocharger packs more dense air into the cylinders for more complete combustion and lower emissions, improving performance and engine efficiency. These benefits are especially useful at high altitudes.

**Air-to-Air Aftercooler.** Emissions are reduced by providing cooler inlet air for more efficient combustion. This also extends the life of the piston rings and bore.

**Dual Cooling Jets.** Located in the block, dual cooling jets spray oil on the piston skirt and cylinder bores to keep ring temperatures low for long ring and liner life with excellent oil control.

**Pistons.** Two-piece, articulated pistons with forged steel crowns offer excellent strength and aluminum skirts for reduced weight. The pistons are oil cooled for increased heat dissipation and longer life.

**Valves.** Four valves per cylinder allow for good air flow, enhancing fuel efficiency and heat rejection. The valves and unit injection system are camshaft-actuated for precise timing.

**Crankshaft.** Steel-forged, carburized and induction-hardened, the crankshaft offers long-term durability and is dynamically balanced for smooth operation. The crankshaft is also completely regrindable, and the connecting rods can be removed through the tops of the cylinders for easy servicing.

**Cat Engine Oil.** Recommended for use in Cat diesel engines, Cat Engine Oil is formulated to optimize engine life and performance. The engine oil change interval is 500 hours.

**Cat Remanufactured Parts.** A large choice of factory remanufactured parts and dealer proposed repair options increase machine availability and reduce total repair costs.

### Heavy-Duty Axles and Brakes.

The axles and brakes are designed to last in all kinds of operating conditions. Two front axle disc brakes provide improved braking capability and better heat dissipation. Planetary final drives use free-floating, bronze sleeve bearings in the planet gears.

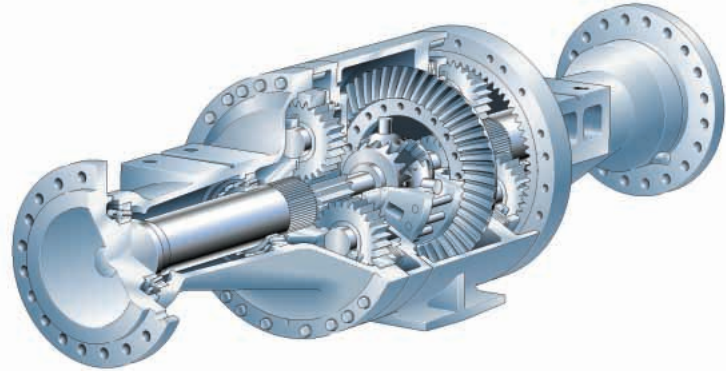
- Oil-disc brakes are adjustment-free and fully enclosed to lock out contaminants

**Front Axle.** The front axle is rigidly mounted to the frame to support the weight of the compactor, internal torque loads and external loads applied during compacting operation.

**Rear Axle.** A trunnion, two trunnion supports and associated bearings make up the rear axle which oscillates plus or minus eight degrees, ensuring four wheel ground contact for traction and stability.

**Four-Piece Axle.** The four-piece axle contains two axle shaft housings – the center housing and the intermediate housing. Features and benefits of the four-piece axle design include:

- Inboard brakes on the front axle only are positioned immediately adjacent to the differential and operate on the low torque side of the final drive, requiring less braking force to stop the machine



**No-SPIN Differentials.** Optional No-SPIN differentials are available for improving traction in poor underfoot conditions.

- Front No-SPIN differentials for corner loading, uneven floor applications where weight transfer occurs within the front axle.
- Rear No-SPIN differentials for uphill load operations or any other application where increased weight is transferred to the rear axle.

Both front and rear No-SPIN differentials are needed only for extreme poor underfoot conditions or for straight ahead heavy dozing applications.

(NOTE: Both front and rear No-SPIN differentials installed, may reduce steering performance and maneuverability in tight turning radius applications as well as increase operating costs.)

### Electronic Power Shift Transmission.

Designed, developed and built by Caterpillar, the transmission allows full power speed and directional changes. Fully modulated gear shifts significantly contribute to operator comfort and increase machine productivity as well as component life.

**Electronic Clutch Pressure Control (ECPC)/Controlled Throttle Shifting (CTS).** ECPC and CTS sense input from both the transmission and the operator controls in the cab to modulate each individual clutch through a proportional electro-hydraulic valve. This results in smoother shifts in both speed and direction. Energy is modulated into the clutches, resulting in longer clutch life.



## Operator's Station

*Comfort and control – a top quality operator's station helps maximize productivity.*



### **1 Exceptional All-Around Viewing Area.**

The large viewing area reduces strain and fatigue, making operators more productive. With the rear vision camera attachment, the operator can more easily see what is behind the machine by way of an in-cab monitor.

### **2 Caterpillar® Monitoring System.**

With electronic analog gauges, the Caterpillar Monitoring System is a highly effective and reliable warning and diagnostic system.

As a warning system, it constantly checks machine functions and tells the operator when there is a problem. Easy-to-read gauges display fuel level, temperatures for engine coolant, transmission and hydraulic oil, engine rpm and gear range. Hour meter, odometer and analog tachometer readings are also displayed.

As a diagnostic system, it identifies conditions, shows current readings and plays back maximum or highest readings registered during recent operations.

The right side panel contains a three-level warning system, providing full time monitoring of key functions. The system alerts the operator of immediate or impending problems with air inlet temperature, brake oil pressure, electrical system, low voltage, engine oil pressure, engine over-speed, fuel filter status, parking brake status, steering oil pressure and transmission filter status.

### **3 Quick Gear Kick Up/Down Button.**

The operator can easily downshift or upshift to a different gear with the kick up/down button. It is a convenient way to shift that saves time and effort.

### **4 Ignition Key Start/Stop Switch.**

The ignition key/switch is positioned for easy machine starting and stopping.

### **5 12-Volt Power Supply and Electronic Technician (Cat ET) Diagnostics.**

The power supply inside the cab can power radios, telephones or a laptop computer. This is particularly useful for powering a laptop running Cat ET to access the enhanced engine and transmission control system diagnostics.

**6 Steering Column.** The steering column adjusts to multiple positions. A leather-like steering wheel and transmission control provide a sure grip and comfortable feel. The horn is conveniently located in the center of the steering wheel.

### **7 Pilot-Operated Blade Controls.**

Conveniently located blade controls allow for precise blade movement.

**8 Operator Seat.** The operator seat is designed for comfort and support. Seat cushions reduce pressure on the lower back and thighs while allowing unrestricted arm and leg movement.

**9 Built-In Storage Space.** Conveniently located storage is designed to hold cups, lunch box, insulated bottle and personal items.

**10 Air Vents.** Vents located throughout the cab keep fresh air flowing while improving the cab's heating, cooling, defrosting and defogging capabilities.

**11 Throttle Lock.** With throttle lock, the operator can set the engine speed and remove his foot from the governor (accelerator) pedal much like cruise control in an automobile. Using this feature increases productivity, fuel efficiency and improves operator comfort.

**12 Decelerator Pedal.** The decelerator pedal on the left acts as both a brake and an engine decelerator to override the engine speed selected by the throttle lock. This enables the operator to slow down when the throttle lock is engaged and to return to throttle lock without pressing a button. This aids in maneuvering around trucks, tractors or any other obstacle.

### **13 Windshield Washers/Wipers.**

Wipers with in-the-blade washer delivery system are standard features on front and rear windows. The front wiper has intermittent speed capability.

### **14 Rear Vision Camera Monitor.**

Connected to a camera mounted on the radiator guard, this monitor allows the operator to see the area behind the machine.

**Radio Ready.** The radio ready cab includes a 12-volt converter (2-amp), speakers, antenna, all wiring and brackets for entertainment or communications radio installation.



## Serviceability

*If maintenance is simple and accessible, it gets done.*



**Engine Access.** An all metal engine enclosure and hinged access doors allow for easy daily maintenance and inspection.

**Engine Shutdown Switch.** The engine shutdown switch is located inside the left engine enclosure panel for easy access and extended switch life.

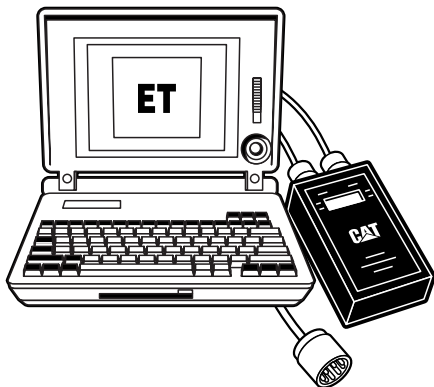
**Left Side Service Access.** The engine oil filter, grease points (lower), air filter (front), power train oil dipstick (top), power train oil fill (below cab), power train oil filter and high speed engine oil fill are easily accessed through the left side service door.

**Right Side Service Access.** The fuel filter, water separator, fuel primer and engine oil dipstick are all within easy reach through the right side service door.

**Hydraulic Oil Cooler.** The hinged hydraulic cooler can be swung open without special tools.



**Roof-Mounted Air Conditioning Condenser.** The hinged air conditioning condenser swings open and coupled with the hydraulic oil cooler, allows the cooling system to be cleaned quickly and easily.



**Cat Electronic Technician (ET).** Cat ET is a software program which allows the service technician to find and identify a problem on a machine and analyze how to fix it quickly. It has the capability to access the Electronic Control Modules from a laptop computer.

Cat ET is also used for:

- Viewing active and non-active diagnostic codes and clearing them after repair
- Displaying the status of all parameters such as engine speed, gear engaged, control levers position, control switch position, etc.
- Performing diagnostic tests and calibrations of electro-hydraulic components
- Viewing current configuration and changing parameter settings
- Flashing new Cat software in the Electronic Control Modules
- Recording all parameters during machine operation

A customer version of Cat ET is also available for your fleet of Cat equipment. Contact your Cat dealer for more information.



#### **Caterpillar Scheduled Oil Sampling.**

S-O-S<sup>SM</sup> analysis helps ensure better performance, longer life and increased customer satisfaction. It is an extremely thorough and reliable early warning system which detects traces of metals, dirt and other contaminants in your engine, axle, transmission and hydraulic oil. It can predict potential trouble early, thus avoiding costly downtime. Your Cat dealer can give you results and specific recommendations shortly after receiving your sample.

**S-O-S Analysis.** Each test can provide specific types of diagnostic information:

- Oil condition analysis identifies loss of lubricating properties by quantifying combustion products such as soot, sulfur, oxidation and nitrates
- Wear analysis monitors components wear by detecting, identifying and assessing the amount and type of metal wear elements found in the oil
- Chemical and physical tests detect the physical presence of unwanted fluids (water, fuel, antifreeze)

#### **500 Hour Oil Change Interval.**

Uptime and production increase by doubling the time between oil and filter changes without requiring increased oil sump capacity.

**Operator Station.** The operator station can be removed or replaced in approximately 45 minutes without having to disconnect hydraulic lines. Quick disconnect couplings allow fast disconnect of the air conditioning unit without releasing refrigerant.

**Blade-Style Fuses.** Fuse serviceability and reliability are improved with blade-style fuses located in the cab.

**Battery Box.** The right side bumper holds the battery box for convenient access to the maintenance-free batteries.

**Tool Box.** The left side bumper holds the tool box, giving it additional protection against the harsh landfill environment.

## Complete Customer Support

*When you buy a Cat machine, you also get the Caterpillar total commitment to customer support from the true landfill equipment experts...the Caterpillar dealer network.*



**Machine Selection.** Make detailed comparisons of the machines under consideration before purchase. Cat dealers can estimate component life, preventative maintenance cost and the true cost of lost production.

**Purchase.** Look past initial price. Consider the financing options available as well as day-to-day operating costs. Look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

### **Customer Support Agreements.**

Cat dealers offer a variety of product support agreements and work with customers to develop a plan that best meets specific needs. These plans can cover the entire machine, including work tools, to help protect the customer's investment.

**Product Support.** You will find nearly all parts at our dealer parts counter. Cat dealers use a worldwide computer network to find in-stock parts to minimize downtime.

Save money with genuine Cat Reman parts. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

**Operation.** Improving operating techniques can boost your profits. Your Cat dealer has training video tapes, literature and other ideas to help you increase your productivity, including Certified Operator Training classes to help maximize the return on your machine investment.

**Maintenance Services.** More equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S-O-S and Coolant Sampling and Technical Analysis help you avoid unscheduled downtime.

**Replacement.** Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.



## Engine

Engine Model	Cat® C9 ACERT™	
Gross Power	189 kW	253 hp
Net Power	173 kW	232 hp
Net Power ISO 3046-2	173 kW	232 hp
Net Power ISO 9249	175 kW	235 hp
SAE J1349	173 kW	232 hp
EEC 80/1269	175 kW	235 hp
Torque Rise	19%	
Bore	112 mm	4.4 in
Stroke	149 mm	5.9 in
Displacement	8.8 L	537 in <sup>3</sup>

- Engine meets U.S. Environmental Protection Agency Tier 3 emissions regulations and Stage IIIA EU Directive/97/68/EC
- Engine power ratings apply at 2,100 rpm when tested under the specific standard conditions for the specified standard
- Power rating conditions based on standard air conditions of 25° C (77° F) and 100 kPa (29.8 Hg) dry barometer, using 25° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) [reference a fuel density of 828.9 g/L (7.001 lb/gal)]
- Torque rise at 1,200 rpm

## Transmission

Forward 1	5.6 km/h	3.5 mph
Forward 2	9.5 km/h	5.9 mph
Reverse 1	6.3 km/h	4 mph
Reverse 2	10.6 km/h	6.6 mph

## Hydraulic System

Vane Pump Output at 2,015 rpm and 6900 kPa (1,000 psi)	112 L/min	29.6 gal/min
Relief Valve Setting	15 500 kPa	2,248 psi
Lift Cylinder Bore × Stroke	120.65 mm × 913.9 mm 4.75 in × 36 in	

## Axles

Front	Fixed
Oscillating Rear	±8°

## Brakes

Standards	Meet OSHA regulations
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## Wheels – Plus Tip Teeth with Abrasion Resistant Material (ARM)

Drum Width	1016 mm	3 ft 4 in
Drum Diameter	1300 mm	4 ft 3 in
Tips per Wheel	20	

## Wheels – Chevron-Pattern, Chopper Blades

Drum Width	1016 mm	3 ft 4 in
Drum Diameter	1300 mm	4 ft 3 in
Blades per Wheel	20	

## Straight Blade

Width Over End Bits	3657 mm	11 ft 11 in
Moldboard Length	3556 mm	11 ft 9 in
Height	1914 mm	6 ft 4 in

## Service Refill Capacities

Fuel Tank	446 L	117.8 gal
Cooling System	55 L	14.5 gal
Crankcase	34 L	9 gal
Transmission	50 L	13.2 gal
Differentials and Final Drives – Front	43 L	11.4 gal
Differentials and Final Drives – Rear	43 L	11.4 gal
Hydraulic System (including Tank)	137 L	36.2 gal
Hydraulic Tank	88 L	23.2 gal

## Weights

Operating Weight	23 748 kg	52,364 lb
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- Machine configured with heaviest options, 80 kg (176 lb) operator and full fuel tank



## Cab

ROPS/FOPS	Meet SAE and ISO standards
<ul style="list-style-type: none"> <li>Cat® cab and Rollover Protective Structure/Falling Object Protective Structure (ROPS/FOPS) are standard in North America, Europe and Japan</li> <li>Standard air conditioning system contains R134a refrigerant</li> <li>ROPS meets SAE J394, SAE 1040 APR88 and ISO 3471-1986 standards</li> <li>FOPS meets SAE J231 JAN81 and ISO 3449-194 standards</li> </ul>	

## Sound Performance

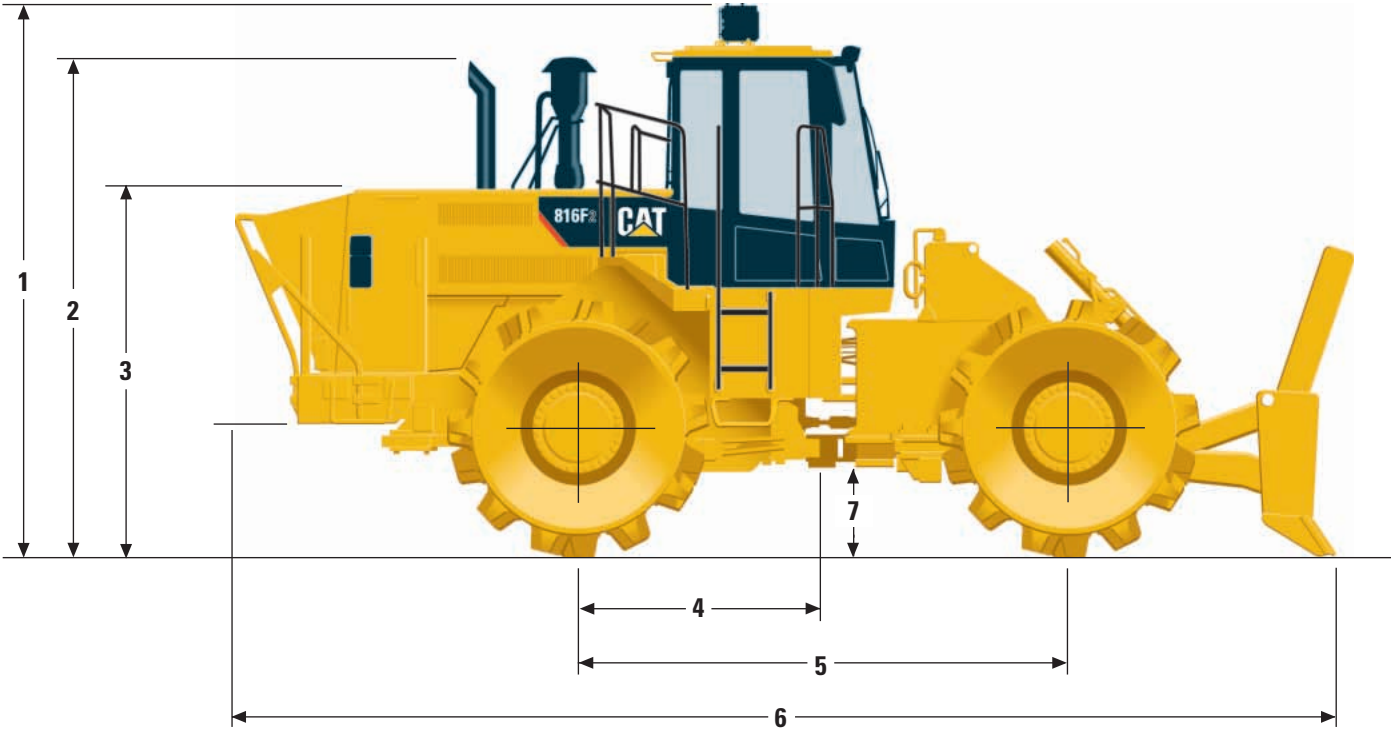
Standards	Meet required sound standards
<ul style="list-style-type: none"> <li>The operator exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 78 dB(A), for the cab offered by Caterpillar, when properly installed, maintained and tested with the doors and windows closed</li> <li>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 environment</li> <li>The exterior sound pressure level for the standard machine measured at a distance of 15 m (49 ft 2 in) according to the test procedures specified in SAE J88 JUN86 mid-gear-moving operation is 80 dB(A)</li> <li>The sound power level is 111 dB(A) measured according to the dynamic test procedure and conditions specified in ISO 6395:1988/Amd. 1:1996 for a standard machine configuration</li> </ul>	

## Dimensions

Ground Clearance to Bumper	804 mm	2 ft 8 in
Ground Clearance to Striker Bars	650 mm	2 ft 2 in
Center Line of Rear Axle to Edge of Bumper	1896 mm	6 ft 3 in
Width over Wheels	3338 mm	10 ft 12 in
Width over Endbits (Blade)	3657 mm	11 ft 12 in
Turning Radius – Outside End Bits	6464 mm	21 ft 3 in
Blade Width Straight	3556 mm	11 ft 9 in
Drum Width	1016 mm	3 ft 4 in

# Dimensions

All dimensions are approximate.



1	Height to Top of Cab with A/C	3801 mm	12 ft 9 in
2	Height to Top of Exhaust Pipe	3462 mm	11 ft 5 in
3	Height to Top of Hood	2489 mm	8 ft 2 in
4	Center Line of Rear Axle to Hitch	1675 mm	5 ft 6 in

5	Wheelbase	3350 mm	10 ft 11 in
6	Length with Blade on Ground	7854 mm	25 ft 10 in
7	Ground Clearance	456 mm	1 ft 6 in

## Standard Equipment

*Standard equipment may vary. Consult your Caterpillar dealer for details.*

### ELECTRICAL

- Alarm, backup
- Alternator (80 amp)
- Batteries, maintenance-free (2)
- Diagnostic connectors
- Lighting system, halogen (front, rear and cab-mounted)
- Starting and charging system (24-volt)
- Starting receptacle for emergency starts

### GUARDS

- Axle (front and rear)
- Drive shaft
- Hinged crankcase
- Hydraulic tank
- Power train
- Steering cylinder

### OPERATOR ENVIRONMENT

- Air conditioner, roof-mounted
- Blade control system locks
- Cab, pressurized and sound suppressed (ROPS/FOPS)
  - includes antenna, speakers and converter (12-volt, 10-15 amp)
- Coat hook
- Cigar lighter and ashtray
- Caterpillar Monitoring System
  - Instrumentation, Gauges
    - Engine coolant temperature
    - Fuel level
    - Hydraulic oil temperature
    - Speedometer/Tachometer
    - Transmission oil temperature
  - Instrumentation, Warning Indicators
    - Air inlet temperature
    - Brake oil pressure
    - Electrical system, low voltage
    - Engine oil pressure
    - Engine overspeed
    - Fuel filter status
    - Parking brake status
    - Steering oil pressure
    - Transmission filter status
- Dome light (cab)
- Fuses, blade style (in-cab)
- Heater and defroster
- Horn, electric (steering wheel mounted)
- Hydraulic steering
- Lunchbox and beverage holders
- Mirrors, rearview (internally-mounted)
- Seat, KAB mechanical suspension
- Seat belt, retractable, 76 mm (3 in) wide
- Wet-arm wipers/washers (front and rear)
  - Intermittent front wiper

### POWER TRAIN

- Brakes, fully hydraulic, enclosed, wet-disc
  - Service, parking and secondary
- Engine, Cat® C9 ACERT™
  - ATAAC and ADEM A4 controller
- Engine cooling fan (suction)
- Fuel priming pump (electric)
- Muffler
- Radiator, Next Generation Modular (NGMR)
- Starting aid (ether)
- Torque converter
- Transmission, planetary (2 forward/2 reverse speeds)
  - Electronic Clutch Pressure Control

### OTHER STANDARD EQUIPMENT

- Cat O-ring face seals/couplings
- XT™ hoses
- Coolers
  - Engine oil
  - Hydraulic oil
  - Transmission oil
- Hitch, drawbar with pin
- Hood, metallic with lockable service doors
- Hydraulic oil cooler
- Oil sampling valves
- Striker bars (all wheels)
- Vandalism protection caplocks
- Wheels (1016 mm/40 in) with weld-on Plus Tips with extended inner rim

### BULLDOZER

- Bulldozer blade, hydraulics and linkage are not included in standard equipment

### ANTIFREEZE

- Premixed 50 percent concentration of Extended Life Coolant with freeze protection to -34° C (-29° F)

## Optional Equipment (with approximate change in operating weight)

*Optional equipment may vary. Consult your Caterpillar dealer for specifics.*

	kg	lb		kg	lb
<b>ELECTRICAL</b>			<b>STARTING AIDS</b>		
Camera, rear vision	1.8	4	Heater, engine coolant (120 volt)	0.9	2
HID lights	—	—	Heater, engine coolant (240 volt)	0.9	2
Light, rotating beacon	4	9	<b>STRIKER BARS</b>		
<b>PRODUCT LINK COMMUNICATIONS</b>			Striker bars with cleaner fingers	372	820
Product Link, North America	1.8	4	<b>MISCELLANEOUS ATTACHMENTS</b>		
Product Link, International	1.8	4	Fast fuel system (Shaw Aero)	5	11
<b>OPERATOR ENVIRONMENT</b>			Guard, front window	24	53
Seat, comfort, air suspension	32	71	Oil change system, high speed	1.4	3
Mirrors, outside-mounted	28	62	Precleaner, turbine/trash	13	29
Mirror, internal (panoramic)	5	11	Sound suppression, exterior	52	114
Visor, cab	2.2	5	<b>ANTIFREEZE</b>		
Radios	—	—	Extended Life Coolant –50° C (–58° F)	0	0
Radio CD AM/FM	1.8	4	<b>BLADES</b>		
Radio CD AM/FM (SIRIUS Satellite)	0	0	Straight	1957	4315
Radio CD AM/FM (XM Satellite)	0	0	Contact Cat Work Tools and Services		
<b>POWER TRAIN</b>			for U or Semi-U blades or any additional		
Differential, No-SPIN, front	1.8	4	blade options		
Differential, No-SPIN, rear	1.8	4	<b>WHEELS</b>		
<b>HYDRAULICS</b>			Contact your Cat dealer or see price list		
Hydraulics, 2 valve	0	0	for all options and weights		



# 816F Series 2 Landfill Compactor

For more complete information on Cat products, dealer services,  
and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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Featured machines in photos may include additional equipment.  
See your Caterpillar dealer for available options.

AEHQ5728 (10-06)

Replaces AEHQ5487-03

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**CATERPILLAR®**

## 1 Destaques do Compactador de Aterros Sanitários:

- Componentes testados em campo e uma tradição de projetos para o setor de lixo, os Compactadores de Aterros Sanitários Caterpillar® oferecem desempenho confiável para um ambiente hostil como esse.
- Os Compactadores de Aterros Sanitários Caterpillar têm projeto ergonômico para aumentar o conforto do operador. Com excelente área de visualização e recursos que oferecem excelente controle e facilidade de operação, os Compactadores de Aterros Sanitários Caterpillar oferecem o melhor ambiente de trabalho para o setor de lixo.
- Os Compactadores de Aterros Sanitários Caterpillar são projetados para garantir tempo parado mínimo através da facilidade de acesso de manutenção, pontos de manutenção agrupados e atenção às áreas de manutenção estratégicas. Tudo isso foi feito para que os Compactadores de Aterros Sanitários Caterpillar passem o tempo trabalhando, não sendo reparados.
- Projetados ergonomicamente para a saúde e a produtividade do operador, com controles leves de alavanca única, boa visibilidade e a melhor cabine da categoria.
- Recursos de segurança que protegem o pessoal em trabalho no compactador e ao redor dele.

## Compactador para Aterro Sanitário 816F Series 2

Um Mundo, Uma Máquina. O Compactador de Aterro Caterpillar® 816F Series 2 oferece... excelente proteção contra lixo, maior produtividade, excelente estabilidade da máquina e conforto do operador, atendendo aos regulamentos de emissões da Agência de Proteção Ambiental dos E.U.A. mundiais Tier 3 e Estágio IIIA EU de Diretriz de Emissões 97/68/EC. Combine tudo isso com o melhor sistema de suporte ao cliente do mundo através da rede de representantes Caterpillar e você chega aos menores custos operacionais com o maior tempo em atividade do setor.

### Engine

Potência Bruta	189 kW
Net Power	173 kW
Modelo do Motor	Caterpillar® C9 ACERT™
Potência Líquida ISO 3046-2	173 kW
Potência Líquida ISO 9249	175 kW
SAE J1349	173 kW
EEC 80/1269	175 kW
Aumento de Torque	19 %
Diâmetro Interno	112 mm
Curso do Pistão	149 mm
Cilindrada	8.8 L

### Transmissão

1ªAvante	5.6 km/h
2ª Avante	9.5 km/h
1ª à Ré	6.3 km/h
2ª à Ré	10.6 km/h

### Sistema Hidráulico

Saída da Bomba de Palhetas a 2.015 RPM e 6.900 kPa (1000 lb/pol²)	112 L/min
Ajuste da Válvula de Alívio	15500 kPa
Diâmetro Interno do Curso de Levantamento x Curso	120,65 mm x 913,9 mm 4,75 pol x 36 pol

### Axles

Front	Fixo
Oscillating Rear	±8°

### Freios

Padrões	Atende aos regulamentos da OSHA
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### Rodas - Dentes de Pontas Plus com Material Resistente à Abrasão (MRA).

Largura do Tambor	1016 mm
Diâmetro do Tambor	1300 mm
Pontas por Roda	20

### Wheels - Chevron-Pattern, Chopper Blades

Drum Width	1016 mm
Drum Diameter	1300 mm
Blades per Wheel	20

### Lâmina Reta

Largura entre os Cantos de Lâmina	3657 mm
Comprimento da Armação da Lâmina	3556 mm
Altura	1914 mm

### Capacidades de Reabastecimento de Manutenção

Tanque de Combustível	446 L
Sistema de Arrefecimento	55 L
Cárter	34 L
Transmissão	50 L
Diferenciais e comandos finais - Dianteiros	43 L
Diferenciais e comandos finais - Traseiros	43 L
Sistema Hidráulico (Incluindo o Tanque)	137 L
Tanque do Óleo Hidráulico	88 L

### Pesos

Peso em Operação	23748 kg
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### Cabine

Estrutura ROPS/FOPS	Atende aos padrões SAE e ISO.
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### Nível de Ruído

Padrões	Atende aos padrões requeridos de ruídos
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### Especificações de Operação

Altura Livre	456 mm
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### Dimensões

Altura até o topo da cabine com Ar Condicionado	3801 mm
Altura até o Topo do Cano de Escape	3462 mm
Altura até o Topo do Capô	2489 mm
Vão Livre do Solo ao Pára-choque	804 mm
Vão Livre do Solo às Barras Limpadoras	650 mm
Linha Central do Eixo Traseiro ao Pára-choque	1896 mm
Linha Central do Eixo Traseiro ao Engate	1675 mm
Distância entre Eixos	3350 mm
Comprimento com a Lâmina no Solo	7854 mm
Largura entre as Rodas	3338 mm
Largura entre os Cantos (Lâmina)	3657 mm
Raio de Curva Externo - Cantos de Lâmina	6464 mm
Largura da Lâmina Reta	3556 mm
Largura do Tambor	1016 mm
Ground Clearance	456 mm





#### **Proteção contra Lixo e Sistema de Arrefecimento**

Projetado para manter a operação ativa em uma das aplicações mais difíceis de equipamentos pesados ... o aterro sanitário de resíduos sólidos.

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#### **Pontas e Rodas**

A Caterpillar oferece uma seleção de pontas e lâminas soldadas em suas próprias rodas de aço que vai atender as suas necessidades. Não importa qual seja sua escolha, ela faz parte do sistema total que nossos compactadores oferecem: máxima produção, desempenho e compactação.

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#### **Trem de Força**

O trem de força torna o desempenho confiável numa característica padrão.

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#### **Lâminas para Aterros Sanitários**

Encontram-se disponíveis várias opções de lâminas para atender suas necessidades de espalhamento e trabalho com lâmina.

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#### **Posto do Operador**

Conforto e controle - uma cabine do operador de qualidade superior ajuda a maximizar a produtividade.

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#### **Facilidade de Manutenção**

Se a manutenção for simples e acessível, ela será feita.

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#### **Suporte Total ao Cliente**

Quando você compra uma máquina Caterpillar, recebe também o compromisso total da Caterpillar com o suporte ao cliente oferecido por verdadeiros especialistas em equipamentos para aterros sanitários... a rede de revendedores Caterpillar.

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### **816F SERIES 2 STANDARD EQUIPMENT**

#### **SISTEMA ELÉTRICO**

Alarme, marcha à ré  
Alternador (80 amp)  
Baterias, isentas de manutenção (2)  
Conectores de diagnóstico  
Sistema de iluminação, halogênio (dianteira, traseira e montada na cabine)  
Sistema de partida e carga (24 Volts)  
Tomada de partida para partidas de emergência

#### **AMBIENTE DO OPERADOR**

Travas do sistema de controle da lâmina  
Cabine, pressurizada e com supressão de ruídos (ROPS/FOPS)  
inclui antena, alto-falantes e conversor (12 volts, 10-15 amp)  
Gancho para casaco  
Acendedor de cigarros e cinzeiro  
Sistema de Monitorização Caterpillar  
Instrumentação, medidores  
Temperatura do líquido arrefecedor do motor  
Nível do combustível  
Velocímetro/Tacômetro  
Temperatura do óleo da transmissão  
Temperatura do óleo hidráulico  
Instrumentação, Indicadores de alarme  
Temperatura da admissão de ar  
Pressão do óleo dos freios  
Baixa voltagem do sistema elétrico  
Pressão do óleo do motor  
Rotação excessiva do motor  
Status do filtro de combustível  
Status do freio de estacionamento  
Pressão do Óleo de Direção  
Status do filtro da transmissão  
Luzes no teto (cabine)

Fusíveis, estilo lâmina (na cabine)
Aquecedor e desembaçador
Buzina elétrica (montada no volante)
Direção hidráulica
Porta-lancheira e porta copos
Espelhos retrovisores (montagem interna)
Assento, suspensão mecânica KAB
Cinto de segurança retrátil com largura de 76 mm (3 pol)
Limpadores/lavadores de pára-brisa com fluido (dianteiro e traseiro)
Limpador dianteiro intermitente
Ar condicionado, montado no teto
<b>TREM DE FORÇA</b>
Freios de discos totalmente hidráulicos, cobertos e arrefecidos a óleo
Freios, de estacionamento e secundário
Motor Caterpillar® C9 ACERT™
ATAAC e controlador ADEM A4
Bomba de escorva de combustível, (elétrica)
Silenciador
Radiador, Modular de Próxima Geração (NGMR)
Auxiliar de partida (a éter)
Conversor de torque
Transmissão, planetária (2 velocidades avante/2 velocidades em marcha à ré)
Controle Eletrônico da Pressão da Embreagem
Ventilador de arrefecimento do motor (sucção)
<b>OUTROS EQUIPAMENTOS DE SÉRIE</b>
Anéis retentores/acopladores Caterpillar
Mangueiras XT™
Capô, metálico com portas para manutenção com travas
Engate, barra de tração com pino
Arrefecedor de óleo hidráulico
Válvulas de amostras de óleo
Tampas com trava para proteção contra vandalismo
Rodas (1016 mm/40 pol) com Pontas Plus soldadas e extensões de aros
Arrefecedores
Óleo do motor
Óleo hidráulico
Óleo da transmissão
Barras limpadoras (todas as rodas)
<b>Protetores</b>
Cárter articulado
Trem de Força
Cilindro da direção
Eixo de comando
Eixo (dianteiro e traseiro)
Tanque de óleo hidráulico
<b>LÂMINA</b>
Lâmina, sistema hidráulico e articulação não estão incluídos nos equipamentos padrão
<b>ANTICONGELANTE</b>
Concentração de 50% pré-misturada do Líquido Arrefecedor de Vida Prolongada com proteção anticongelante até -34° C (-29° F).