

# D6R, D7R, D8R, D9R, D10R

## Waste Handler



	D6R		D7R		D8R		D9R		D10R	
Cat® Engines	3306		3306		3406C		3408E		3412E	
Gross Power	133 kW	179 HP	184 kW	247 HP	245 kW	328 HP	330 kW	443 HP	457 kW	613 HP
Flywheel Power	123 kW	165 HP	171 kW	230 HP	228 kW	305 HP	302 kW	405 HP	425 kW	570 HP
U-Blade Capacity*	11.2 m <sup>3</sup>	14.3 yd <sup>3</sup>	16.8 m <sup>3</sup>	22.0 yd <sup>3</sup>	24.7 m <sup>3</sup>	32.4 yd <sup>3</sup>	33.5 m <sup>3</sup>	43.8 yd <sup>3</sup>	48.8 m <sup>3</sup>	63.9 yd <sup>3</sup>

\*Semi U-Blade for D6R

## **D6R, D7R, D8R, D9R, D10R Waste Handling Arrangement**

*Specifically designed for waste handling and landfill debris environments.*

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### **Waste Handling Guards**

Guards for the radiator, engine compartment, crankcase (belly), and tilt cylinder lines provide protection for critical machine components under harsh waste handling environments.

**pg. 4**

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### **Waste Handling Guards**

Debris protection guards for the idler seals, pivot shaft seals, and final drive seals help prevent damage to the seals and reduces downtime and costly repairs. **pg. 5**

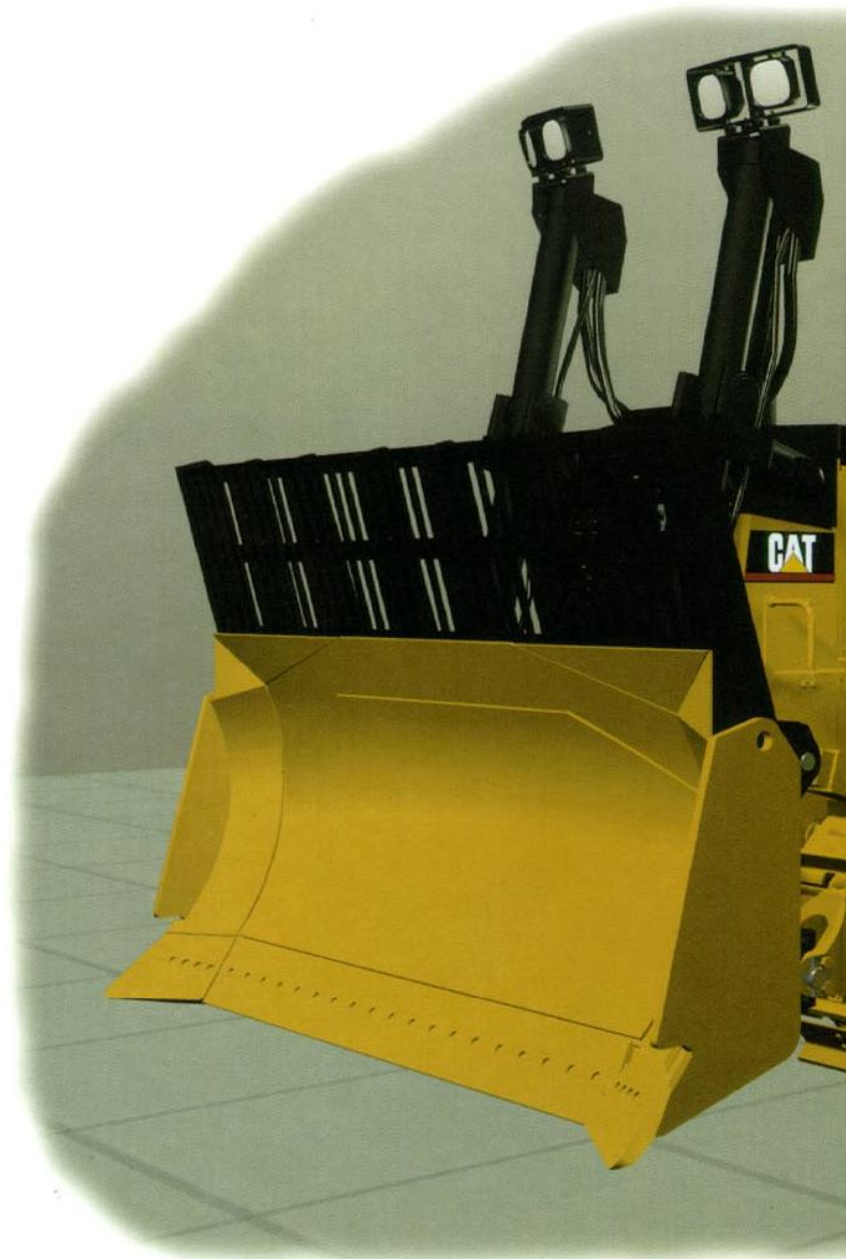
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### **Debris Resistant Features**

A variety of debris environment features are included with the Waste Handling Arrangement to reduce plugging, extend service life, and enhance productivity. **pg. 6**

### ***Caterpillar® Waste Handling Track-Type Tractors***

*offer a variety of options to meet the demands of specific waste handling needs. The field proven, specially designed modifications will work in the severest of landfill conditions.*



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### **Required Attachments**

These attachments are required and must be ordered with the basic waste disposal arrangement. These include engine enclosures, hydraulic and fuel tank guards, ROPS cab, and cylinder mounted lights. **pg. 7**

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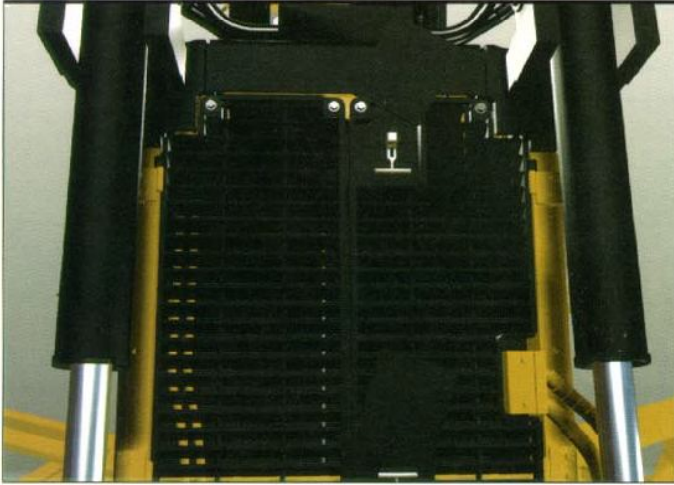
### **Recommended Options**

These options are highly recommended to complement the waste disposal arrangement and ensure peak performance. These options, including landfill blades, striker bars, and specially designed track shoes help increase productivity, prevent spilling, and reduce refuse packing. A laminated thermal shield, trash core AMOCS radiator, Flexxaire™ fan, and SY-KLONE® turbine precleaner prevent plugging and reduce heat and debris build-up. **pg. 8-10**

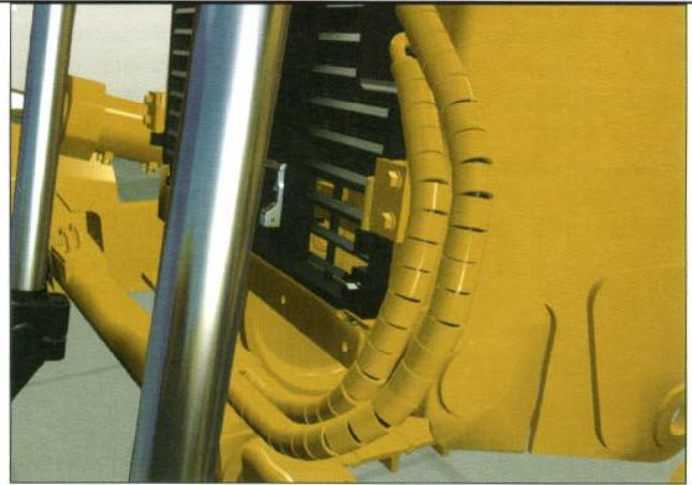


## Waste Handling Arrangement

*Extensive guarding helps protect critical machine components, body panels and the radiator from being damaged by debris. Minimizing build-up helps prevent component damage.*



**Hinged radiator guard** protects the cooling system. It comes equipped with two quick release “T” handles for the center-opening guard, allowing easy access to the radiator for cleaning. Covers protect the handles from damage. Special hinge latches retain the guard in the open or closed positions.



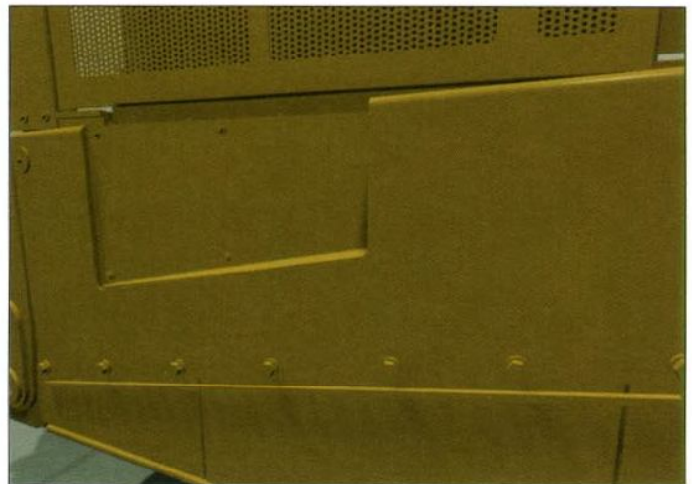
**Tilt cylinder line guards** help protect hydraulic lines from contact damage, while maintaining hose flexibility.



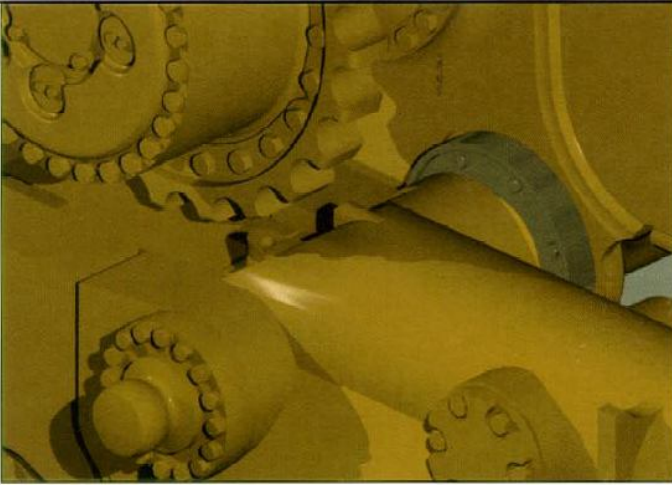
**Crankcase (belly) guards** serve a dual purpose. They help prevent contact damage to vital power train components, and help keep debris out of the power train compartments.

**Note:**

The D8 features a guard that can be hydraulically raised and lowered.



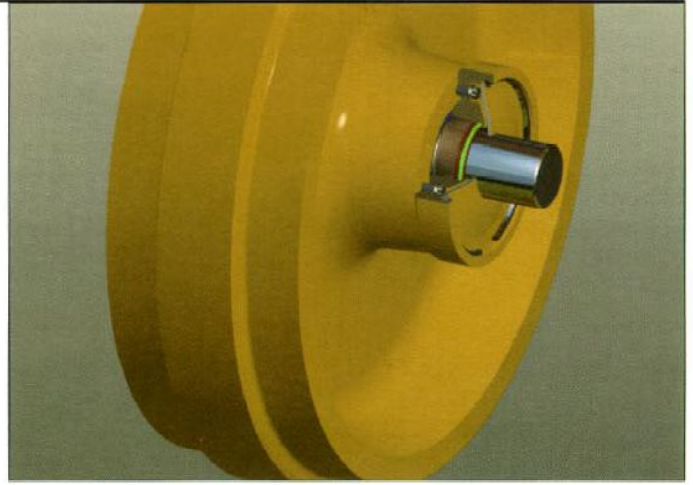
**Chassis guards** help protect the engine compartment by deflecting debris from rising upward along the chassis.



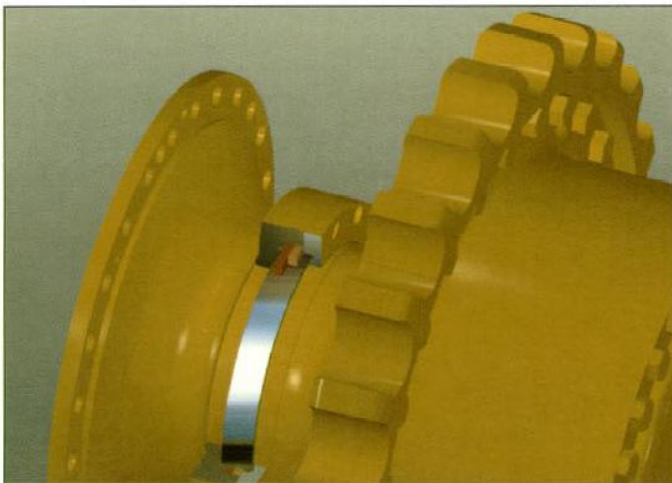
**Pivot shaft seal guards** help prevent debris from entering and damaging the Duo-Cone seals as well as the bolts on the pivot shaft seal retainers.

**Note:**

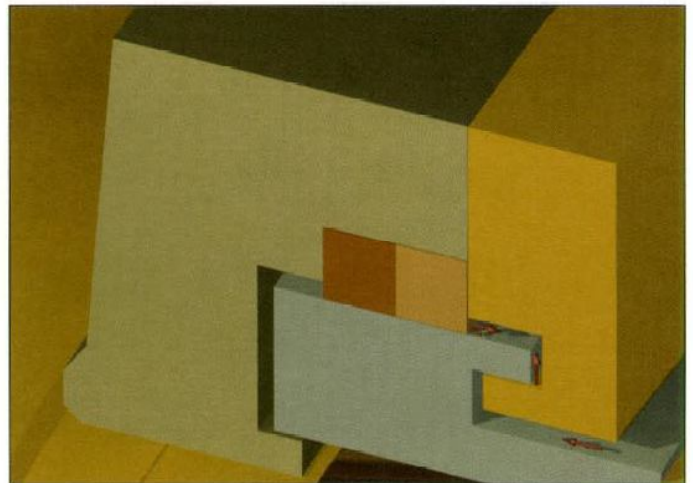
The D6R does not have a pivot shaft.



**Idler seal guards** help keep wire, fishing line, strapping, etc., from wrapping around and damaging the Duo-Cone seals.



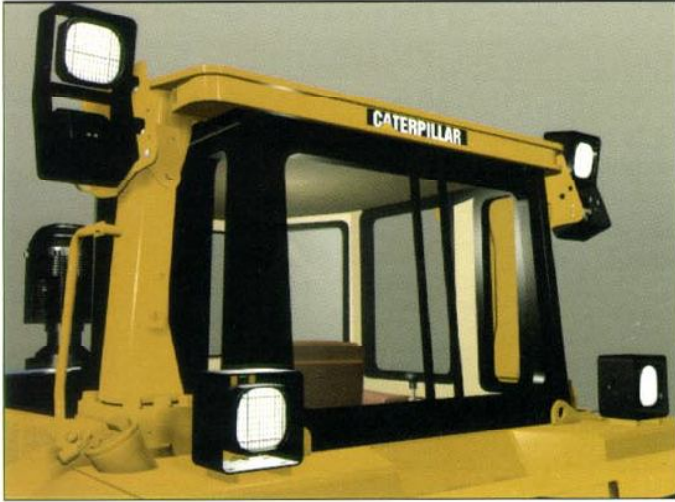
**Final drive seal guards** help prevent wire, nylon strapping, etc., from wrapping around and damaging the Duo-Cone seals. The outer guard is now stationary, thicker, and has increased hardness, all of which help prevent excessive wear from debris.



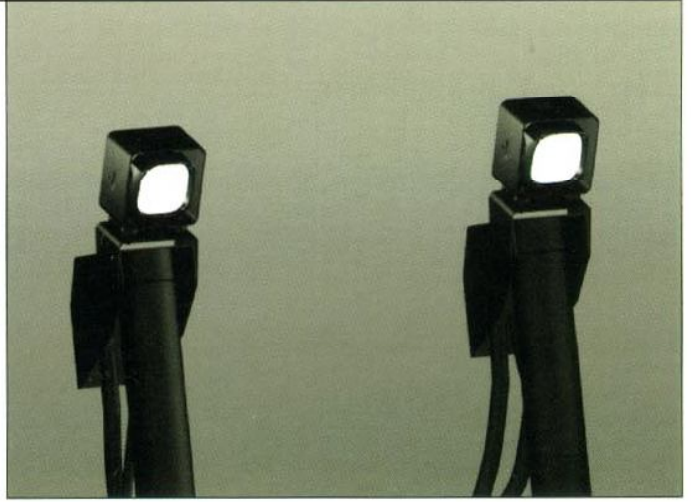
- This design offers superior protection to the seal. Debris would have to make four 90 degree turns, penetrate the packing material, and then make two additional 90 degree turns.

## Debris Resistant Features

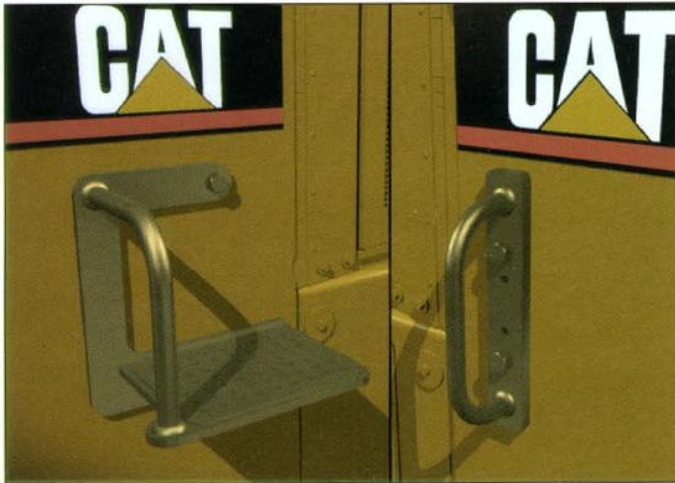
*Additional landfill modifications enhance productivity and help prevent damage.*



**Rear, tank-mounted lights** are relocated on the ROPS which removes the lights from the concentrated debris environment to help protect them from damage. Combinations vary depending on each model.



**Front lights** are mounted on top of the bulldozer lift cylinders allowing them to project light over the trash rack and keep the lights above the concentrated debris environment for longer service life.



**Heavy duty steps and handles** are manufactured from plate steel and solid rod to withstand the rigors of landfill operation.

**High-capacity alternator** provides additional power required for electrical accessories such as supplemental lights and communications and entertainment radios.

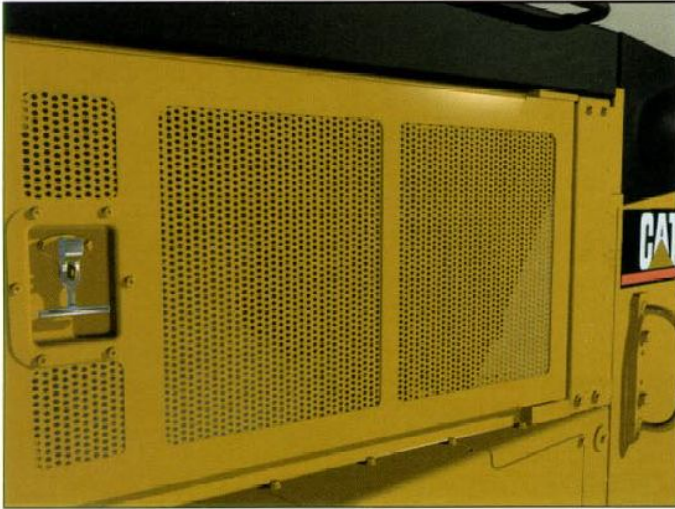
**Note:**

75 amp alternator (D6R, D7R, D8R, D9R)  
100 amp alternator (D10R)

**Raised prescreener** helps reduce the likelihood of airborne paper or plastics plugging the air intake. It provides a larger air inlet.

## Required Attachments

*These options must be ordered in addition to the basic waste disposal arrangement.*

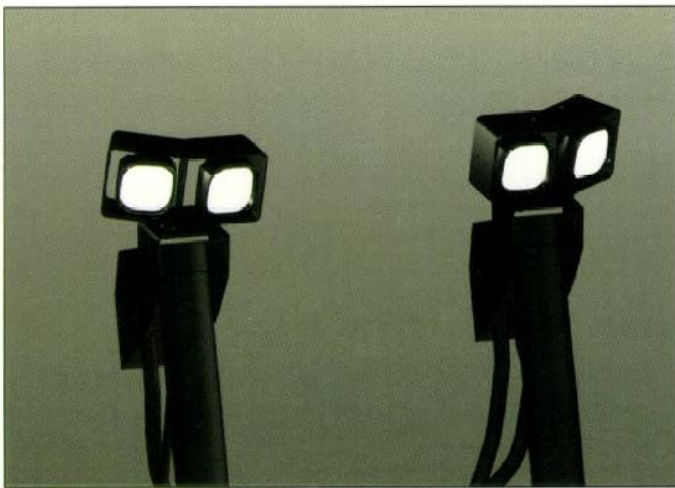


**Engine enclosures** consist of perforated hood and side panels. The enclosures help prevent airborne materials from entering the engine compartment and help reduce radiator plugging which can cause cooling system problems.



**Hydraulic and fuel tank guard** helps protect implement hydraulic oil tank, battery box and fuel tank.

- Plates are included to cover the light openings after they are repositioned on top of cylinders and ROPS.



**Supplemental cylinder mounted lights** (two front) are repositioned from the fenders opening to the top of the cylinders. The fender openings are covered with plates to prevent debris from entering.

**Note:**

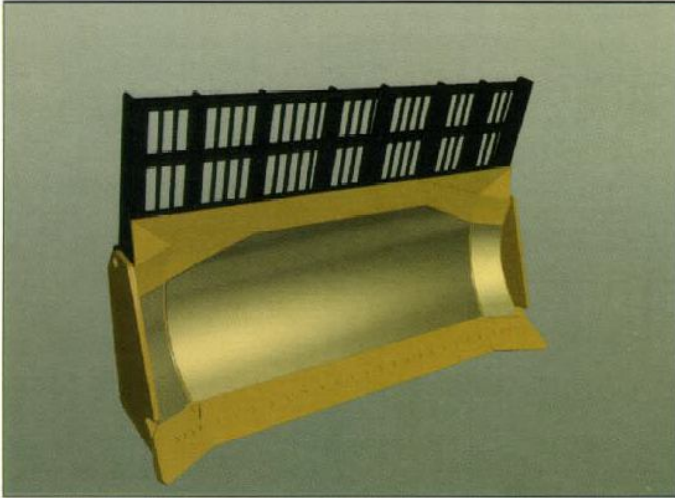
This option is available on the D8R, D9R, and D10R.

**Other Required Attachments Per Model:**

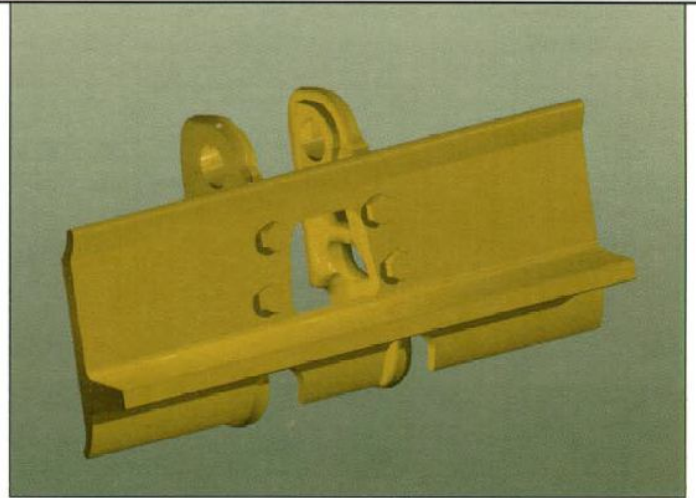
- ROPS cab for all models.
- D10R rear power train guards.
- D10R striker bar with cwt or drawbar.
- D7R extreme service crankcase guards.
- D7R lights (6).
- D6R extreme service crankcase guards.
- D6R lights (4).

## Recommended Options

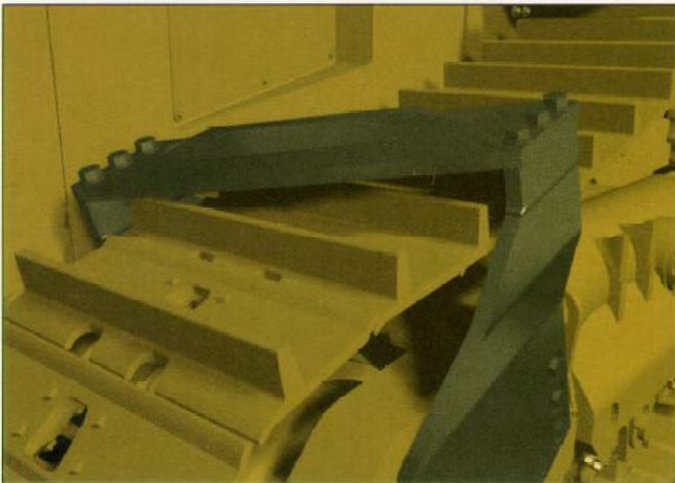
Several additional options are recommended to assist in matching your site requirements.



**Caterpillar landfill blades** increase the dozing capacity in trash and helps prevent material from spilling over the blade and entering the radiator. Wear plates are available, and are recommended when working in highly abrasive materials.

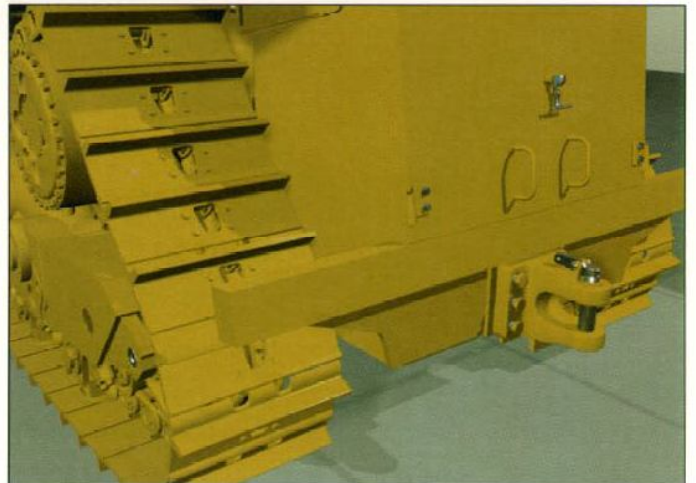


**Trapezoidal track shoes** reduce refuse packing within the track and reduces track chain tightening and accelerated pin and bushing wear. The trapezoidal holes relieve packing by allowing the sprocket to punch out dirt and debris.



**Front striker bars** are angled design to prevent debris from riding up the track and damaging the fenders or fuel and hydraulic tanks.

- The striker bar mounts are included in the basic waste handling arrangement. This allows the striker bars to be easily mounted if they are not initially ordered.

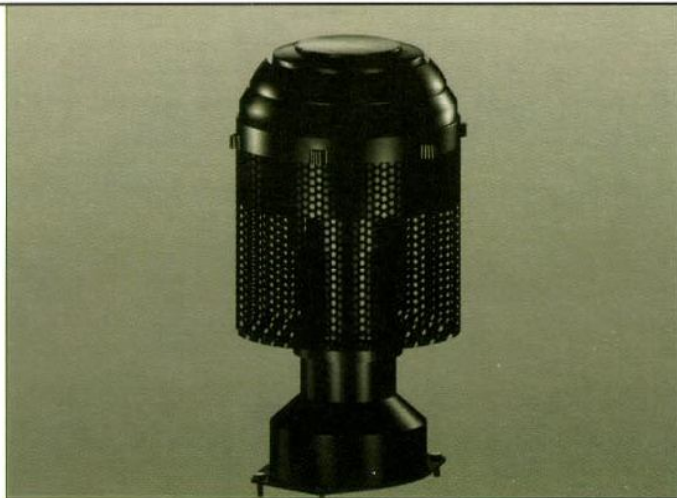


**Rear striker bars** incorporate a rigid drawbar and a housing with large access doors for storage on machines not equipped with rippers. For machines with rippers, striker bars mount on ripper frame.

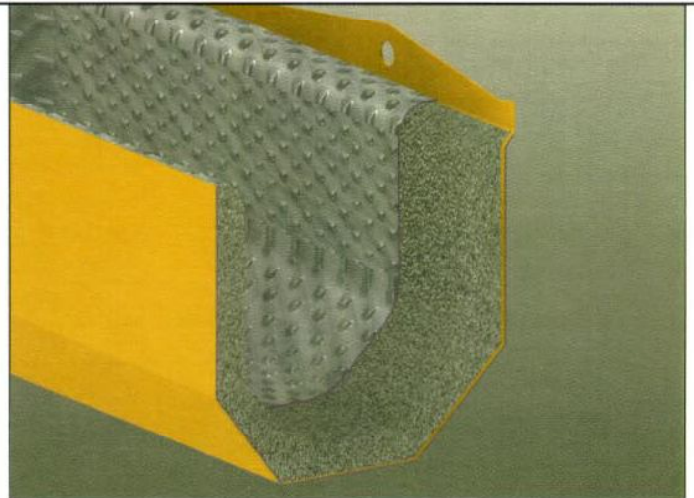
**Note:**

D10R has rear counter-weights instead of a housing with doors.

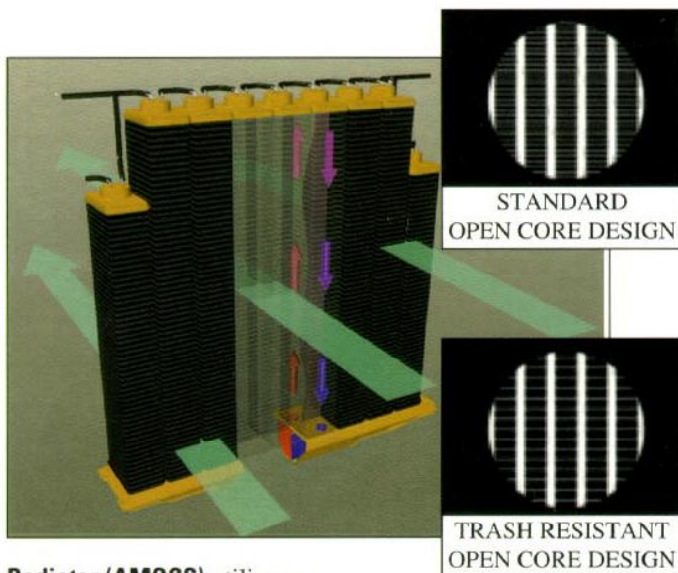




**SY-KLONE® turbine air precleaner** removes large particulates from the incoming air before they reach the air filter and extends filter life two to four times. The turbine inside creates a vortex with the incoming air to eject particulates. This unit converts the standard, single-stage air cleaner to a two-stage system. This option includes a screen and a dash-mounted air cleaner indicator.

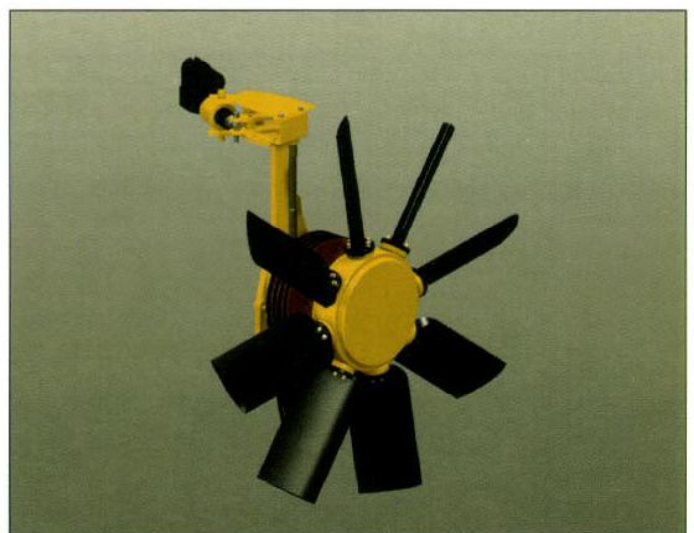


**Laminated thermal shields** cover the exhaust stack inside the compartment, hot-side of the turbocharger, and the exhaust manifold. These shields reduce surface temperatures well below the flash point of most common combustibles encountered.



**Radiator (AMOCS)** utilizes an exclusive two pass cooling system and increased cooling surface area to provide significantly more cooling capacity than conventional systems. A trash core radiator is available with six fins per inch, replacing the standard nine fins per inch.

**Note:**  
D10R has nine fins per inch only.



**Flexxaire™ fan engine control system** automatically reverses fan pitch at preset intervals to purge debris from the radiator and engine compartment. The operator also can manually purge the fan at any time. The thermostatically controlled fan provides optimum engine operating temperature.

## Recommended Options

*Features for peak performance.*

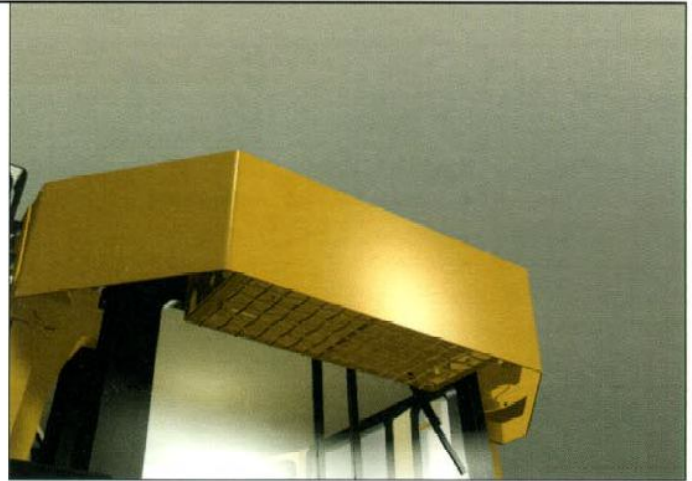


**ROPS-mounted air conditioner condenser and fans** are relocated from the engine compartment to the ROPS.

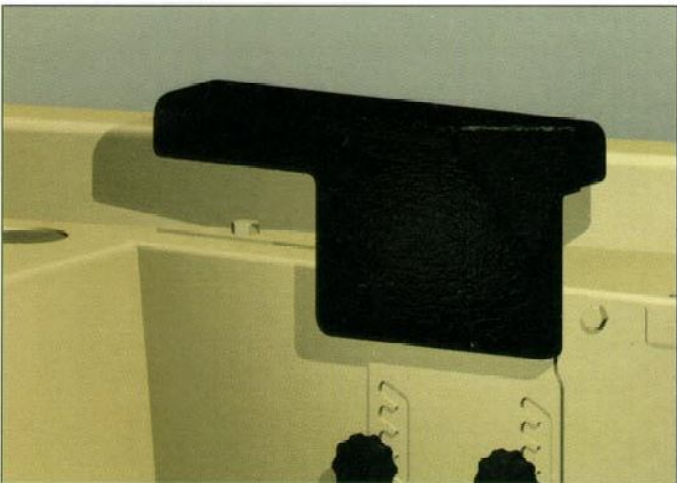
- Moving the condenser and fans away from the radiator reduces the concentration of debris and plugging. This relocation also increases the calculated cooling capacity of the machine for operation in higher temperatures.

**Note:**

The ROPS-mounted position raises the height of the D8R, D9R, and D10R an additional 30.5 cm (12 inches).



**ROPS-mounted air conditioner condenser and fans** for the D6R and D7R are mounted to the back of the ROPS to maintain overall machine height.



**Adjustable armrests** help improve operator comfort for shift-long productivity. No tools required.

**Black painted hood, cylinders, and back of blade** reduces glare from lights while operating at night and also while operating in direct sunlight.

**Hydraulic rippers** are available as single or multi-shank to penetrate tough material fast and rip thoroughly.

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## Total Customer Support

*Unmatched in the industry! The most serviceable machines from the most committed dealers.*

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**Dealers committed to fast, quality customer support.** Your Cat dealer's investment in service begins with the fastest and most complete parts availability in the industry. The full range of exchange components and Caterpillar Remanufactured parts is aimed at saving you time and money, while carrying new-parts warranty.

**Selection.** Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventative maintenance? What is the true cost of lost production? Your Cat dealer can give you precise answers to these questions.

**Dealer service response extends** to programs such as Custom Track Service (CTS), Scheduled Oil Sampling (S•O•S), and guaranteed maintenance contracts that get peak life and performance from your machine.

**Services.** Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement, to help you get the best return on your investment.

**Service Capability.** Whether in the dealer's fully equipped shop or in the field, you will get trained service technicians using the latest technology and tools.

**Product Support.** You will find nearly all parts at our dealer parts counter. Cat dealers utilize a world-wide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured parts. You receive the same warranty and reliability as new products at a cost savings of 40 to 70 percent.

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## Service

*The Cat elevated sprocket tractors modular design concept moves a generation ahead in simplified service and repair. Ease of maintenance and fast in field component exchange gives you more time on the job.*

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**Built-in servicing ease.** Less service time means more working time. Major components are made as modules and most can be removed without disturbing or removing others.

**Grouped service points** and easy access to servicing areas make routine inspections fast and convenient.

**Quick disconnect fittings** allow for fast diagnosis of the power train and implement oil systems.

**Ecology drains** provide an environmentally safer method to drain fluids. They are included on the radiator, hydraulic tank and major power train components.

**A diagnostic connector** allows the Cat Dealer's electronic test instrument to quickly troubleshoot the electrical system.

**Pre-testing modular components** before installation or after repair assures quality.

## Specifications

Model	D6R		D7R	
Flywheel Power	123 kW	165 HP	171 kW	230 HP
Operating Weight (PS)*	20 600 kg	45,370 lb	27 920 kg	61,500 lb
Engine Model	3306		3306	
Rated Engine RPM	1900		2100	
No. of Cylinders	6		6	
Bore	121 mm	4.75"	121 mm	4.75"
Stroke	152 mm	6"	152 mm	6"
Displacement	10.5 L	638 in <sup>3</sup>	10.5 L	638 in <sup>3</sup>
Track Rollers (each side)	6/7 on (XL)		7	
Width of Standard Track Shoe	560 mm	22"	560 mm	22"
Length of Track on Ground	2.62 m	8'7.5"	2.88 m	9'5"
Ground Contact Area (with Std. Shoe)	2.94 m <sup>2</sup>	4564 in <sup>2</sup>	3.22 m <sup>2</sup>	4996 in <sup>2</sup>
Track Gauge	1.89 m	6'2"	1.98 m	6'5"
General Dimensions:				
Height (Stripped Top)**	2.26 m	7'5"	2.56 m	8'5"
Height (to top of Cab ROPS)	3.12 m	10'3"	3.50 m	11'6"
Overall Length:				
Blade	5.11 m	16'9"	5.82 m	19'1"
w/o Blade	4.07 m	13'4"	4.73 m	15'6"
	2.64 m	8'8"	2.87 m	9'5"
	—	—	—	—
Ground Clearance	383 mm	15.1"	414 mm	16.3"
Blades Types and Widths:				
Semi-U	3.26 m	10'8"	3.69 m	12'1"
Universal	N/A	N/A	3.99 m	13'1"
Fuel Tank Refill Capacity	383 L	101.0 gal	479 L	126.5 gal

\* Operating Weight includes lubricants, coolant, full fuel tank, hydraulic controls, and ROPS-FOPS canopy. Also included are special radiator core and ejector fan, draw-bar, engine enclosures, fuel tank guard, extreme service crankcase (belly) guard, HD hinged radiator guard, higher prescreener, front and rear striker bars and operator.

\*\* Height with ROPS canopy, exhaust pipe, seat or all easily removed encumbrances.

**Note:**

D6R 6SU blade with 610 mm (24") trash rack and 558 mm (22") track shoes.

D7R 7SU blade with 610 mm (24") trash rack and 558 mm (22") track shoes.

D8R		D9R		D10R	
228 kW	305 HP	302 kW	405 HP	425 kW	570 HP
37 630 kg	82,880 lb	47 913 kg	105,630 lb	65 764 kg	144,986 lb
3406C		3408E		3412E	
2100		1900		1900	
6		8		12	
137 mm	5.4"	137 mm	5.4"	137 mm	5.4"
165 mm	6.5"	152 mm	6.0"	152 mm	6.0"
14.6 L	893 in <sup>3</sup>	18 L	1009 in <sup>3</sup>	27 L	1649 in <sup>3</sup>
8		8		8	
560 mm	22"	610 mm	24"	610 mm	24"
3.21 m	10'6.5"	3.47 m	11'5"	3.88 m	12'9"
3.58 m <sup>2</sup>	5544 in <sup>2</sup>	4.24 m <sup>2</sup>	6569 in <sup>2</sup>	4.7 m <sup>2</sup>	7326 in <sup>2</sup>
2.08 m	6'10"	2.25 m	7'5"	2.55 m	8'4"
2.67 m	8'9"	3.00 m	9'10"	3.27 m	10'6"
3.51 m	11'6"	3.99 m	13'1"	4.36 m	14'3"
6.24 m	20'6"	6.78 m	22'3"	7.52 m	24'8"
4.96 m	16'2"	5.18 m	17'0"	5.33 m	17'6"
3.05 m	10'0"	3.30 m	10'10"	3.72 m	12'2"
2.70 m	8'8"	2.93 m	9'8"	3.16 m	10'4"
585 mm	23"	585 mm	23"	615 mm	24.2"
3.94 m	12'11"	4.31 m	14'11"	—	—
4.26 m	14'0"	4.66 m	15'3"	5.26 m	17'3"
625 L	165.0 gal	818 L	216.0 gal	1109 L	293.0 gal

**Note:**

D8R 8SU blade with 762 mm (30") track rack and 660 mm (26") track shoes.

D9R 9SU blade with 914 mm (36") trash rack and 685 mm (27") track shoes.

D10R 10SU blade with 1107 mm (44") trash rack and 610 mm (24") track shoes.

# D6R, D7R, D8R, D9R, D10R Waste Handling Arrangement

AEHQ5239 (3-97)  
(Replaces AEHQ5204)

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For standard specifications and features, refer to the  
standard Caterpillar specialogs for these machines.  
Materials and specifications are subject to change without notice.

The Caterpillar logo consists of the word "CATERPILLAR" in a bold, white, sans-serif font. A yellow triangle is positioned below the letter "A". A registered trademark symbol (®) is located to the upper right of the word.