



# PARTS PRO CLASSIC

## CLASSIC EDITION #23

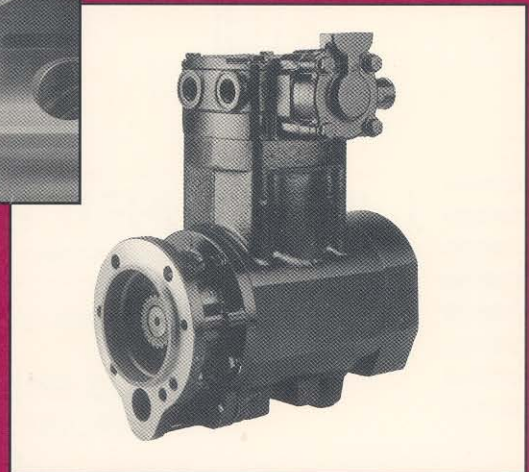
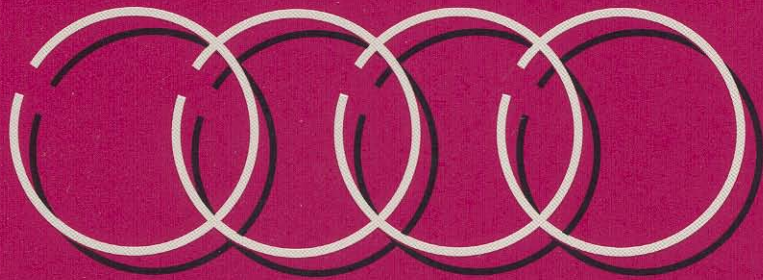
Parts Pro Classic is provided as a historical reference. Special offers, prizes and awards no longer apply to this edition. Current Parts Pro issues along with all Parts Pro Classics may be found at [qsol.cummins.com](https://qsol.cummins.com).





**Cummins**

# **Parts Professional 23**



## **INVEST IN THE BEST**



Parts Professional 23 Quiz

Current Address ☐ Check here if this is a new address

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Old Address (if Applicable)

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Distributor Code \_\_\_\_\_ Dealer Code \_\_\_\_\_

Quiz

1.	A	B		
2.	A	B	C	D
3.	A	B	C	D
4.	A	B		
5.	A	B		
6.	A	B		
7.	A	B	C	D
8.	A	B	C	D
9.	A	B	C	D
10.	A	B	C	D
11.	A	B		
12.	A	B	C	D
13.	A	B	C	D
14.	A	B	C	D
15.	A	B	C	D

Parts Professional 23 Reply Card

☐ Check here if this is a new address

Current Address	Old Address (if applicable)
Name _____	Name _____
Street _____	Street _____
City _____ State ____ Zip _____	City _____ State ____ Zip _____
Distributor Code _____ (if applicable)	Dealer Code _____ (if applicable)
Comments or Suggestions:	Dealer Name _____

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Welcome to Parts Professional 23! I want to thank everyone who has sent me comments during the last few issues. Some of the questions asked will be addressed in future issues of Parts Professional.

One change made on this issue is the implementation of the peel-off address label. Please use it when returning the quiz card. We have had problems with keeping track of addresses, so we decided to start using these labels.

We have been busy over the last year in our development of new products. This issue will focus on some of these new products. In the package, we have also included the Service Parts Topic for TriTech™ and TriTech™ Plus.

Don't forget to take the quiz in the back of the book. Simply tear out the postage-paid card, select your answers, and send it back. The Parts Professional prize is a Cummins Parts Professional coffee mug.

As always, if you have a TIP from the Professional or a Success Story, you can use the reply card to send me the information. Please remember that the TIPS and the Success Story must be compatible with Cummins standard practices and must relate to the sale of Cummins New or Cummins ReCon® Genuine Parts. If you are the top winner in the TIPS or the Success Story, you will receive a Cummins Parts Professional jacket.

If you need additional Parts Professionals, please contact your local distributor. All past issues are available through your distributor, even though the incentives are no longer available.

I look forward to hearing from you!



Kathy Gastineau  
Advertising & Promotions Specialist

**Editor's Note:** Special thanks to Richard Beach, Pat McClendon, Dave Sowden, Dennis Heathfield, Alex Tsarev, and Ellen Jordan for their contributions to Parts Professional 23.

# TIPS

## from the Professionals

The first TIP is from Robert Royall of Cumberland, Virginia. He writes that when you work with a customer, be sure to tell them the importance of checking the DCA in the cooling system and the importance of using the proper anti-freeze/coolant. You should also recommend that they have their DCA tested at the recommended intervals.

Another Virginian has the second TIP. John Wright of Salem, Virginia has a selling TIP. At his dealership, they have made a kit with the parts necessary to properly install a Big Cam accessory drive. This kit saves time at the parts counter for the customer. Included in the kit are seals, wearsleeve washer, nuts and gaskets.

Gerry McClellan of McClure, Pennsylvania has the third TIP. His TIP is regarding invoicing. On the second line of the part description field of their invoices, they insert the warranty time and mileage of certain ReCon parts (Ex. PX Inj. 2 year/125,000 miles). This line lets the customer know what the warranty is on the parts that were purchased.

The winning TIP is from Slim Van DenAvond of DePere, Wisconsin. His TIP is in regards to Dyno checks. When a customer presents a low power complaint, Slim's location gives the customer a coupon for a \$75.00 Dyno Check. This coupon will get the business into their shop. At this price, the Dyno is completed at cost; however, they get the chance to do any maintenance/repair work that is needed.

I want to thank Gerry, Slim, John and Robert for their TIPS. All four people will receive Parts Professional caps and Parts Professional patches for their contributions. Slim will also receive a Parts Professional jacket for his winning TIP. Congratulations to all four of you for your excellent TIPS.

If you have a TIP that has been successful to you, please write the TIP on the postage-paid comment card and send to us. Remember to follow the guidelines outlined in the letter from the editor.

## CORRECTIONS TO PARTS PROFESSIONAL 22

There are a few corrections to be made to Parts Professional 22. The release of this issue was in conjunction with the launch of the product. There are a few changes in the information previously contributed to the Parts Professional.

On page 3 in the second paragraph, it should read charged air cooler instead of clean air cooler.

The third paragraph on page 3, the eighth line down: The sentence should end at power.

The second column on page 3 in the 5th paragraph, the second sentence should read "The fuel shutoff valve is de-activated...." The last sentence is changed to "The idle bypass can accommodate up to 100 lb ft. of torque to the engine at idle."

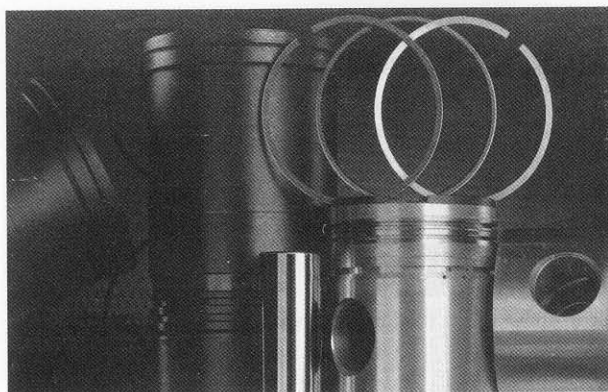
Page 4, Line 1 should be "linkage" instead of "lineage".

On page 6 in the second paragraph, the last sentence should state "Six of the protrusions are equally spaced and the one extra protrusion indicates that the next tooth is the #1 cylinder.

Page 6, paragraph 4, line 1 should read "In front of the CM 420" instead of "below the CM 420."

Also on page 6 in the second column, paragraph 2, the wiring harness has changed. The harness has a 9 pin connector. Please delete the information on the leads.

Please make these corrections in your Parts Professional #22 for future references.



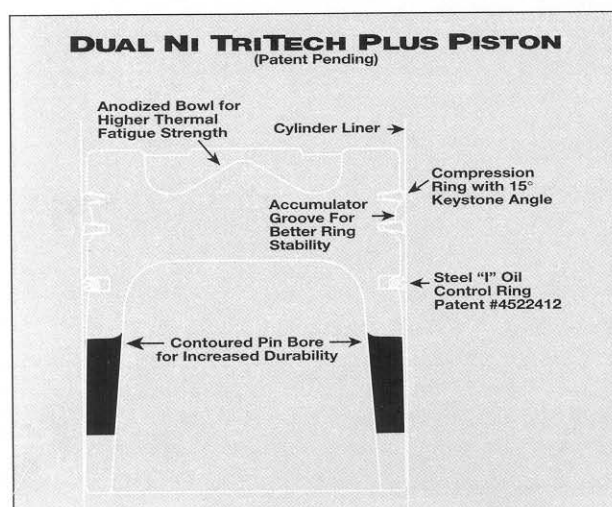
Over the last year, Cummins, Cummins ReCon®, and Fleetguard have been busy developing new products. These new products are aimed at providing the customer the highest quality of products available. What are these new products and what benefits do they provide to the customer?

### TriTech™ and TriTech™ Plus

The new TriTech and TriTech Plus cylinder kits offer the customer many benefits that the non-Genuine products do not. These cylinder kits are the result of taking the technology developed for new engines and applying it to the older ones in the form of replacement parts. The owner of the older equipment will have the same parts as the new engine owner.

What features make the TriTech and TriTech Plus Cylinder Kits stand alone? First, the cylinder kits have a three ring piston. This is the advanced N14-style design developed for the Small Cam, Big Cam I through Big Cam IV and 88NT engines.

The TriTech Plus piston features a contoured pin bore which extends the component's life and makes the engine more reliable. The Dual Ni piston also has an accumulator groove which improves ring stability and oil control.



All TriTech Cylinder Kits come standard with the optimized piston design for improved dynamic stability. The dual Ni TriTech Plus Cylinder Kit has an anodized bowl for higher thermal fatigue strength. The result is a more reliable performance.

The new cylinder kits include a new N14 ring pack that seals better with three rings than the old pistons did with four rings. Blowby is reduced, and the improved oil control helps reduce piston carbon buildup. This increases the durability of the engine.

All TriTech and TriTech Plus cylinder kits come standard with patented ring technology. All ring packs include Genuine Cummins "I" oil rings which are tougher and more flexible than cast iron rings. The flexibility means better conformance to the cylinder liner, which contributes to lower oil consumption.

Both the TriTech and the TriTech Plus top compression ring has a skewed barrel with inlaid chrome; however, the TriTech Plus has a thicker plating. The new design improves durability.

All of these features add up to a great product for your customer. How does your customer know which one to choose? The chart below illustrates the cylinder kit that is right for each application.

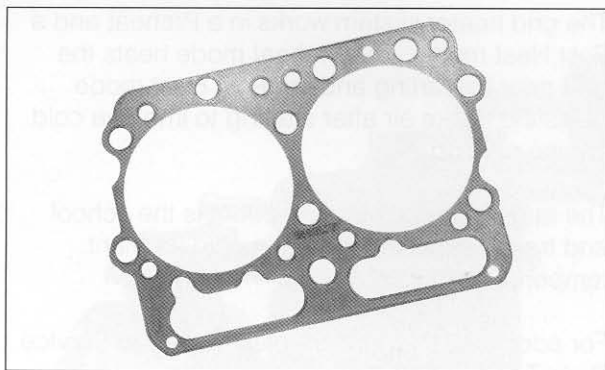
### CUMMINS MAKES IT EASY TO MAKE THE RIGHT CHOICE.

Cylinder Kit	Application	Warranty	Reliability	Durability	Maintenance Costs
<b>Dual Ni TriTech Plus</b>	BCV/88 NT Nat'l Routes/ Heavier Duty/ C Brake™	3 years/ 300,000 miles (482,700 km)	Higher thermal fatigue bowl strength. Stress-resistant pin	New Dual Ni Optimized Three-ring design.	Outstanding oil consumption control
<b>Dual Ni TriTech</b>	BCV/88 NT Local Routes/ Lighter Duty	1 year/ 100,000 miles (160,900 km) or 3,600 hours	Meets all Cummins specifications.	New Dual Ni three-ring design	
<b>Single Ni TriTech Plus</b>	Small Cam/ Big Cam III Nat'l Routes/ Heavier Duty C Brake	2 years/ 200,000 miles (321,800 km) or 7,200 hours	Stress-resistant pin bore design.	New Single Ni optimized for durability design.	
<b>Single Ni TriTech</b>	Small Cam/ Big Cam III	1 year/ 100,000 miles (160,900 km) or 3,600 hours	Meets all Cummins specifications.	New Single Ni three-ring design	

The TriTech and TriTech Plus Single Ni Cylinder Kits were available November 1, 1995. The Dual Ni TriTech and TriTech Plus Cylinder Kits will be available February 1, 1996.

For additional information on the TriTech and TriTech Plus Cylinder Kits, please refer to Service Parts Topic 95T1-10 or bulletin 3698644.

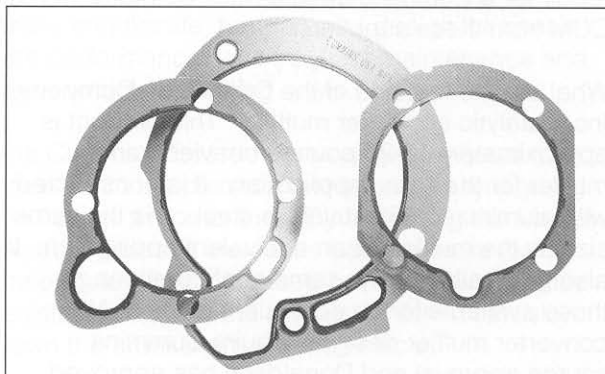




### **Cealastic™ Gasket**

Another new product is the Cealastic Gasket from Cummins. These gaskets are available for all NH/NT/N14 engines. The new products offer benefits to the customer that other gaskets do not.

What do the new gaskets do in the way of keeping the engine clean with the proper fluid levels? To prevent dirt from ingressing between the head and the block, there is a rubber seal on the outer edge of the new head gasket. There are rubber seals around the bolt holes which helps prevent bolt corrosion. The rubber seals around all oil and coolant passages help prevent fluid leakages.



**New Cealastic Accessory Drive, Fuel Pump and Air Compressor Gaskets**

Under minimal force, the rounded elastomeric ridge provides a tight seal. As fluid or gas pressures increase inside the engine, the ridge compresses tighter against the metal carrier for even greater seal integrity.

If you want additional information on the Cealastic gasket, please refer to bulletin 3698625.

### **Fleetguard Can Lube Filter**

Fleetguard first introduced its innovative Cummins-approved full flow/bypass lube filters several years ago. Now, Fleetguard engineers have redesigned these popular filters to offer better performance in a shorter can. Advantages

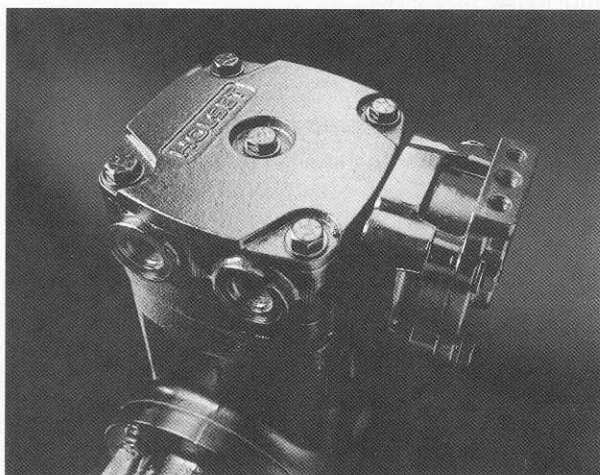


of the new filter include improved efficiency, easier installation, and reduced waste when disposing of used filters.

One new filter is LF670. This filter contains a new composite media of cellulose and fiberglass that provides the same long life as the previous version, with improved efficiency at all micron ratings. The other new filter, LF777, also offers improved media with innovative interlocking disk pattern that provides increased efficiency. Plus, these new shorter can lube filters are more environmentally friendly, providing a 7.5% less weight and 13 % less material volume when disposing of used filters.

Both new versions of the LF670 and LF777 exceed Cummins engineering standards No. 10509-13 and 10547. Additional information on the new shorter can lube filter is available by calling Fleetguard's Customer Assistance Center (1-800-22FILTER).

### **Cummins/Holset QE Ring Valve Head**



Another new product offered by Cummins is the new Cummins/Holset QE ring valve head. This ring valve head will save on fuel costs, reduce the power drain on the engine and increase the life of the air compressor. The QE ring valve head



(Uprate Kit Part Number 3802666) is available for use to uprate Holset SS296 and SS338 compressors.

How does it reduce the power drain on the engine? The air compressor only pumps air about 5%-25% of the time when the engine is running. The other 75%-95% of the time, it simply cycles up and down, using power supplied by the engine. This horsepower is directly translated into hot compressed air, which in a conventional compressor design, is released and wasted.

When there isn't any demand in the QE for the compressor to pump air, the inlet and the exhaust valve are held tightly shut. When the engine-driven compressor piston traps the air, the pent-up energy moves the piston down and returns power back to the engine.

This high-efficiency design does more than reduce fuel consumption. The 20% increase in pumping efficiency reduces duty cycles, which results in cooler operating temperatures, reduced carbon formation, and longer life for all components in the air compressor system. The savings for this uprate are estimated at over \$450, with a breakeven point between 1 and 2 years, depending on the customer's vehicle and application.

Testing also shows that a Cummins/Holset QE air compressor equipped with the new ring valve head will last 25% longer than previous designs. All these features add up to savings for your customer. Additional information is available from bulletin 3698630.

Cummins also has some new products for the MidRange customer.

### **Intake Air Electric Grid Heater**

One new MidRange product is the intake air electric grid heater. This Intake Air Electric Grid Heater system can be used on a 12 volt B Series charge air cooled, turbocharged or naturally aspirated engines (6BTAA, 6BT, or 6B). It cannot be used on engines with water jacket aftercooling or 24 volt electrical systems.

The grid heater system provides a quicker starting time, a smoother engine running after starting, a replacement to ether as a starting aid, and an extension on the starter and battery life through reduced cranking cycles.

The system electronically controls the two grid heating elements to optimize cold weather starts and improve cold engine running.

The grid heater system works in a Preheat and a Post Heat mode. The Preheat mode heats the grid prior to starting and the Post Heat mode heats the intake air after starting to improve cold engine running.

The target market for this product is the school and transit buses operating in cold ambient temperatures.

For additional information, please refer to Service Parts Topic 94T13-2.

### **Catalyst/Muffler Product**

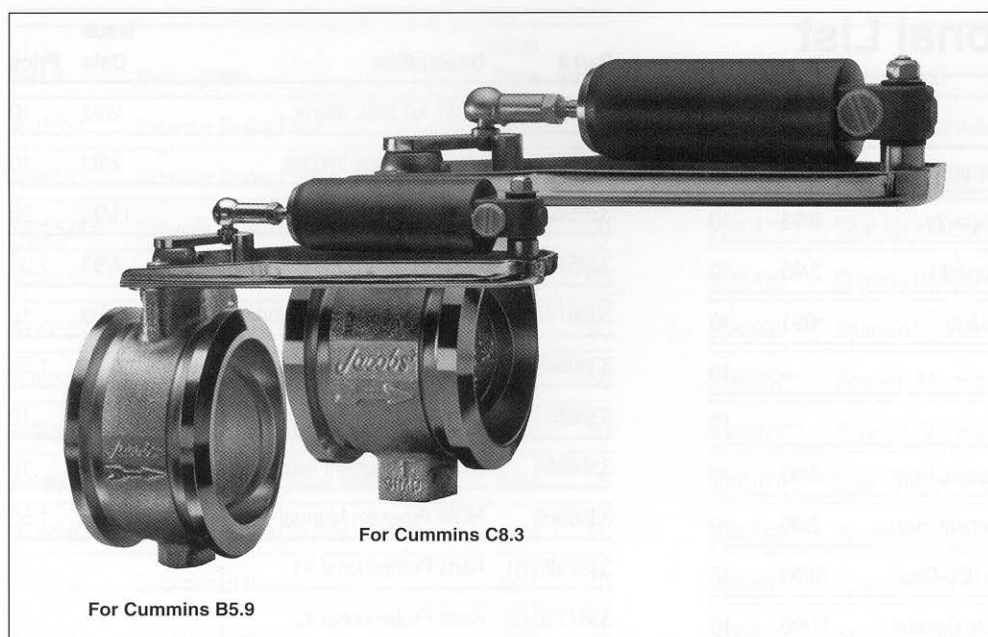
In 1994, all MidRange automotive ratings required an exhaust after treatment system to comply with the 1994 diesel emissions regulations. Cummins developed an oxidation catalyst for the B and C engines to reduce the oil and unburned fuel emissions from the exhaust of the engine. The catalyst design was made available to selected muffler manufacturers to package as an assembly. This product is available from Nelson Industries, Inc. and Donaldson Company, Inc., the Catalytic Converter Mufflers (CCM) manufacturers. Because Cummins does maintain ultimate responsibility for emissions compliance, a catalyst repair for a Cummins Engine must be made with a CCM from these suppliers.

What are the features of the Donaldson Company, Inc. catalytic converter muffler? This product is approximately 15-20 pounds heavier than a muffler for the same application. It is constructed with aluminized 409 stainless steel. It is the same size as the muffler for an equivalent application. It also generally has the same configurations as those available for an equivalent muffler. All converter muffler designs require Cummins source approval and Donaldson has approved designs available.

All Cummins approved Donaldson Company, Inc. converter mufflers have met Cummins design specifications in the areas of backpressure, flow distribution, structural durability, catalyst mounting durability, and water removal where required.

Nelson Industries, Inc. has the standard sizes for round and oval catalytic exhaust mufflers. Custom sizes can also be produced. The catalytic exhaust mufflers can be made to any length. Both standard and custom stamped catalytic exhaust mufflers are available.

If you need more information on catalytic converter mufflers, please refer to Service Parts Topic 94T11-1, or bulletins 3884658, 3884691, and 3884742 for installation guidelines. For additional information, call 812-377-6517 and ask for MidRange Engines.



### Cummins Extarder

The Cummins Extarder is available for the B5.9 and C8.3 engines. As a supplement to service brakes, it reduces both brake and tire wear and, in turn, cuts down on maintenance costs and vehicle downtime. The Cummins Extarder offers the customer more vehicle control, increased brake and tire life, tamperproof design for consistent performance, less frequent maintenance and lower vehicle operating costs.

The Cummins Extarder uses engine exhaust pressure to supplement braking ability and retard the vehicle's momentum. By restricting the flow of exhaust gases, it increases backpressure inside the engine. This increased backpressure creates resistance against the pistons, which in turn slows down the crankshaft and the vehicle.

The Cummins B5.9 equipped with a Cummins Extarder gets a braking boost of up to 190 horsepower, while a Cummins Extarder installed on a Cummins C8.3 engine gets a braking increase of up to 223 horsepower.

The Cummins Extarder is built for continued reliability and high performance. It uses an alloyed cast-iron housing and butterfly plate, along with a specially designed gasket and actuation system rated for higher temperatures. The entire assembly is designed to provide consistent service and performance.

To ensure product quality, the Cummins Extarders are manufactured and assembled using state-of-the-art machinery that permits the exceptionally tight tolerances necessary to provide excellent performance.

There are several different brochures available for the Cummins Extarder. Refer to page 9 for the list of promotional materials.

# Parts Promotional List

Part #	Description	Issue Date	Price
3381213	New Engine Parts Warranty	6/94	.10
3381292	A, B, C, New Parts Warranty	8/93	.10
3385556	444 Pulse Exhaust Manifold	3/90	.10
3385584	C Brake Cross Ref. Guide	4/91	.10
3385709	PT Pacer Mailer	—	.10
3385742	L10 Bolt Sizer	—	.10
3385756	Camshaft Feature/Benefits Flyer	2/90	.10
3385755	Crankshaft Feature/Benefit Flyer	2/90	.10
3385836	How To Talk To CECO 800-Dies	10/90	.10
3385838	Associated Parts Guide Booklet	11/90	.10
3385917	Cummins Care Aftermarket Flyer	8/92	.10
3385958	Cummins Care Poster	3/93	1.00
3386577	Cummins Care Shopping Bag	—	.10
3624349	Maintenance Requirements—Lam.	11/93	.10
3624360	Maintenance Requirements Flyer	2/92	.10
3822013	New/ReCon Kits & Sets Booklet	6/92	1.00
3385973	Cummins Care Ad Slick 85line	6/93	.10
3385974	Cummins Care Ad Slick 120line	6/93	.10
3385979	Parts Management Dev. Program	7/93	125.00
3385994	1-800 Diesels Flier	6/95	.10
3698510	Fan Clutch Brochure	3/94	.25
3698545	Marine Spares Kit Flier	11/94	.25
3698633	Marine Spares Kit Incentive Ltr.	11/94	.10
3698634	Marine Spares Kit Incentive Form	11/94	.10
3698625	Cealastic Gasket Brochure	12/94	.25
3698642	Cealastic Gasket Ad Slick 85line	12/94	.10
3698643	Cealastic Gasket Ad Slick 120line	12/94	.10
3698630	QE Air Compressor Ring Valve Head	12/94	.25
3698664	QE AC Ring Valve Ad Slick 85line	1/95	.10
3698665	QE AC Ring Valve Ad Slick 120line	1/95	.10
3698629	L10 Bus Rebuild Emissions Warranty	2/95	.10
3385899	NOW Certificate	10/93	.10
3385550	NOW Engine Sticker	9/88	.10
3385932	NOW Poster	11/92	1.00
3385933	NOW #10 Flyer	11/92	.10

Part #	Description	Issue Date	Price
3385934	NOW Ad Slick 85line	2/93	.10
3385935	NOW Ad Slick 120line	2/93	.10
3385936	NOW Folder	11/92	.25
3385937	NOW Window Decal	4/93	2.00
3386741	NOW Cost Estimate Worksheet	10/89	.10
3386848-02	NOW Pre-Overhaul Checklist Manual	6/95	1.50
3386857	NOW Pre-Overhaul Checklist	10/89	.10
3386858	NOW Component Inspection Check.	10/89	.10
3386866	NOW Program Manual	10/93	1.50
3387320-01	Parts Professional #1	—	1.00
3387320-02	Parts Professional #2	—	1.00
3387320-03	Parts Professional #3	—	1.00
3387320-04	Parts Professional #4	—	1.00
3387320-05	Parts Professional #5	—	1.00
3387320-06	Parts Professional #6	—	1.00
3387320-07	Parts Professional #7	—	1.00
3387320-0	Parts Professional #8	—	1.00
3387320-09	Parts Professional #9	—	1.00
3387320-10	Parts Professional #10	—	1.00
3387320-11	Parts Professional #11	—	1.00
3387320-12	Parts Professional #12	—	1.00
3387320-13	Parts Professional #13	—	1.00
3387320-14	Parts Professional #14	—	1.00
3385815	Parts Professional #15	—	1.00
3385816	Parts Professional #16	—	1.00
3385817	Parts Professional #17	8/93	1.00
3385818	Parts Professional #18	11/93	1.00
3385819	Parts Professional #19	2/94	1.00
3385820	Parts Professional #20	6/94	1.00
3698700	Parts Professional #21	11/94	1.00
3698701	Parts Professional #22	1/95	1.00
3698702	Parts Professional #23	7/95	1.00
3624186	Parts Professional Binder w/ Issues 1-19	—	5.00
3698522	Parts Professional Binder w/ Issues 20 -	—	3.00
3385706	Parts Professional Enrollment Cards	—	.10
3698530	Extarder Brake Brochure	6/94	.25



Part #	Description	Issue	
		Date	Price
3698531	Extarder Brake Flyer	6/94	.25
3698532	Extarder Brake Poster	6/94	1.00
3698533	Extarder Brake B Parts Manual	6/94	1.00
3698534	Extarder Brake C Parts Manual	6/94	1.00
3698535	Extarder Brake B Installation Manual	6/94	.50
3698536	Extarder Brake C Installation Manual	6/94	.50
3698537	Extarder Brake Air Supply Manual	6/94	.50
3698538	Extarder Brake Direct Mail	6/94	.25
3698540	Extarder Brake Counter Card	6/94	.50
3698542	Extarder Brake Ad Slick	6/94	.10
3698632	Extarder Warranty	2/95	.10
3698644	TriTech 6 pg Brochure-10pk	4/95	1.00
3698645	TriTech Video	4/95	6.00
3698646	TriTech Ad Slick 85 line	4/95	.10
3698647	TriTech Ad Slick 120 line	4/95	.10
3698663	TriTech Laminated Card-5pk	5/95	.50
3698669	TriTech Video Script	5/95	.10
3698675	TriTech Notepads 8.5 x 11	5/95	.50
3698676	TriTech Most Asked Questions	5/95	.10
3698690	TriTech Caps-24pk	6/95	102.00
3698691	TriTech Key Chain-25pk	6/95	18.00
3698692	TriTech Coffee Mug-6pk	6/95	13.50
3698693	TriTech Golf Shirt-Small	6/95	20.95
3698694	TriTech Golf Shirt-Medium	6/95	20.95
3698695	TriTech Golf Shirt-Large	6/95	20.95
3698696	TriTech Golf Shirt-XLarge	6/95	20.95
3698697	TriTech Golf Shirt-XXLarge	6/95	24.95
3698698	TriTech Pens-100pk	6/95	29.00
3698774	"Ask Me About TriTech" Buttons-25pk	6/95	2.50

#### TRANSLATED MATERIALS

3698513	French NOW Certificate	2/94	.10
3698592	French NOW Manual	10/94	1.00
3698672	French TriTech Brochure-10pk	7/95	1.00
3698670	Spanish TriTech Brochure-10pk	7/95	1.00
3150474	Spanish Turbocharger Flyer	3/93	.10
3150475	Spanish Camshaft Flyer	3/93	.10

Part #	Description	Issue	
		Date	Price
3150477	Spanish Crankshaft Flyer	3/93	.10
3150478	Spanish Valves Flyer	3/93	.10
3150479	Spanish Injector Cups Flyer	3/93	.10
3150480	Spanish Injector Components	3/93	.10
3385882	Spanish Cylinder Kit Competitive Bro	3/93	.10
3385957	Spanish Aftermarket Flyer	3/93	.10
3385975	Spanish Cummins Care Poster	3/93	.10
3385976	Spanish Genuine Overhaul Poster	3/93	.10
3698548	Spanish Overhaul Flipchart Sections	8/94	5.00
3698593	Spanish Premium Blue Brochure	10/94	.25
3698635	Spanish Literature Kit	12/94	5.00
338733401	French Parts Professional # 1	—	1.00
338733402	French Parts Professional # 2	—	1.00
338733403	French Parts Professional # 3	—	1.00
338733404	French Parts Professional # 4	—	1.00
338733405	French Parts Professional # 5	—	1.00
338733406	French Parts Professional # 6	—	1.00
338733407	French Parts Professional # 7	—	1.00
338733408	French Parts Professional # 8	—	1.00
338733409	French Parts Professional # 9	—	1.00
338733410	French Parts Professional # 10	—	1.00
338733411	French Parts Professional # 11	—	1.00
3385875	French Parts Professional # 12	—	1.00
3385876	French Parts Professional # 13	—	1.00
3385867	French Parts Professional # 17	2/94	1.00
3385868	French Parts Professional # 18	6/94	1.00
3385869	French Parts Professional # 19	2/95	1.00
3385870	French Parts Professional # 20	2/95	1.00
3387335-01	Spanish Parts Professional # 1	—	1.00
3387335-02	Spanish Parts Professional # 2	—	1.00
3387335-03	Spanish Parts Professional # 3	—	1.00
3387335-04	Spanish Parts Professional # 4	—	1.00
3387335-05	Spanish Parts Professional # 5	—	1.00
3387335-06	Spanish Parts Professional # 6	—	1.00
3387335-07	Spanish Parts Professional # 7	—	1.00
3387335-08	Spanish Parts Professional # 8	—	1.00

Part #	Description	Issue	
		Date	Price
3387335-09	Spanish Parts Professional # 9	—	1.00
3387335-10	Spanish Parts Professional # 10	—	1.00
3387335-11	Spanish Parts Professional # 11	—	1.00
3385854	Spanish Parts Professional # 12	—	1.00
3385855	Spanish Parts Professional # 13	—	1.00
3385856	Spanish Parts Professional # 14	—	1.00
3385857	Spanish Parts Professional # 15	—	1.00

Part #	Description	Issue	
		Date	Price
3385858	Spanish Parts Professional #16	—	1.00
3385859	Spanish Parts Professional #17	6/94	1.00
3385860	Spanish Parts Professional #18	7/94	1.00
3385861	Spanish Parts Professional # 19	8/94	1.00
3385862	Spanish Parts Professional #20	9/94	1.00
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# Parts

## Professional Quiz 23

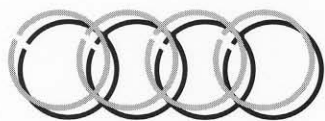
How well do you know the new products? Take this quiz to find out! If you score 100%, you will receive a Parts Professional coffee mug.

1. One new Fleetguard LF670 filter contains a new composite media of cellulose and fiber-glass that provides the same long life as the old filter, with improved efficiency at all micron ratings.  
A. True  
B. False
2. The new shorter can Fleetguard lube filters are more environmentally friendly, providing a \_\_\_\_\_ less weight and \_\_\_\_\_ less material volume when disposing of used filters.  
A. 7.5% , 20%  
B. 7.5%, 13%  
C. 5.0%, 13%  
D. 10%, 10%
3. Some advantages of the Cealastic gaskets are  
A. A rubber seal on the head gasket's outer edge prevents dirt from ingressing between the head and the block.  
B. Rubber seals around bolt holes help prevent bolt corrosion.  
C. Both A and B.  
D. None of the above.
4. As fluid or gas pressures increase inside the engine, the ridge of the Cealastic gasket compresses tighter against the metal carrier for even greater seal integrity.  
A. True  
B. False
5. The TriTech Plus piston features a contoured pin bore which extends the component's life and makes the engine more reliable.  
A. True  
B. False
6. The TriTech and TriTech Plus ring packs include Genuine Cummins patented "I" oil rings which are tougher and more flexible than cast iron rings. The flexibility means better conformance to the cylinder liner, which contributes to lower oil consumption.  
A. True  
B. False
7. The new cylinder kits include a new N14 ring pack that seals better with three rings than the old pistons did with four rings. Advantages of the ring pack:  
A. Blowby is reduced.  
B. Improved oil control helps reduce piston carbon buildup.  
C. Durability of the engine increases.  
D. All of the above.
8. The new Cummins/Holset ring valve head for the air compressor will  
A. Save on Fuel Costs  
B. Reduce the power drain on the engine  
C. Increase the life of the air compressor  
D. All of the above.
9. The \_\_\_\_\_ increase in pumping efficiency reduces duty cycle of the air compressor.  
A. 10%  
B. 30%  
C. 20%  
D. 22%
10. The grid heater system provides  
A. A quicker starting time  
B. A smoother engine running after starting  
C. A replacement to ether as a starting aid  
D. All of the above.
11. The grid heater system's Preheat mode heats the grid prior to starting, and the Post Heat mode heats the intake air after starting to improve cold engine running.  
A. True  
B. False
12. The Cummins Extarder is available for which engine (s)?  
A. M11 and N14  
B. B5.9 and C8.3  
C. Both A and B  
D. None of the above.
13. The Cummins Extarder offers the customer  
A. More vehicle control  
B. Increased brake and tire life  
C. Tamperproof design for consistent performance  
D. All of the above.
14. The Cummins \_\_\_\_\_ engine equipped with a Cummins Extarder gets a braking boost of up to \_\_\_\_\_ horsepower.  
A. B5.9, 190  
B. M11, 280  
C. B5.9, 230  
D. M11, 240
15. The Cummins \_\_\_\_\_ engine equipped with a Cummins Extarder gets a braking increase of up to \_\_\_\_\_ horsepower.  
A. N14, 350  
B. C8.3, 240  
C. C8.3, 223  
D. N14, 300



## NOTES

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