Aftermarket portfolio

CUMMINS SALES & SERVICE NORTH AMERICA

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Introduction

This handbook is designed to provide product information, support and resources to guide your customer interactions. Inside you will find sales enablement guides, website and application links, as well as ongoing programs.

Cummins products

CUMMINS ENGINE PARTS

- Air compressors
- ECMs
- Engine brakes
- Engine fans
- Injectors
- Overhaul kits
- Turbos
- Water pumps

ELECTRONICS & SOFTWARE

Insite

- Electronic service diagnostic tool
- Easy-to-follow troubleshooting assistance
- Review / clear fault information easily
- Adjust parameters
- Quick access to trip information

QuickServe Online

- Complete source of parts and service information
- 15 million Cummins engines
- Cummins Power Generation products
- By engine serial number or engine family

Guidanz

- Integrates web and mobile applications
- Enhanced connectivity and servicing
- Faster and better service solutions
- Minimize downtime

QuickCheck

- Handheld computer
- Capture engine data
- Adjust parameters
- Service, maintain, monitor performance

Connected Solutions

- Wirelessly connect to Cummins
- Immediate diagnosis of engine fault codes
- Actionable insight within seconds
- Prioritize and facilitate service

EMISSIONS SOLUTIONS

- Aftertreatment devices
- Clean air solutions
- DPF cleaning
- Closed crankcase ventilation systems

ENGINES

- On-highway engines (190 HP to 600 HP)
- Industrial engines & power units (30 HP to 6000 HP)
- Remanufactured engines

POWER GENERATION

- Commercial, RV, residential, and marine generators
- Standby / prime power
- Automatic / bypass transfer switches
- Switchgear
- PTOs / hydraulics
- Fire pump drivers
- Natural gas and propane generators
- Custom applications
- Planned Maintenance Agreements

RECON

- On-Highway and Off-Highway Remanufactured Engines – (3.9 liter to 19 liter)
- Components – remanufactured using new parts:
  - Accessory drives
  - Cylinder heads
  - ECMs
  - Fuel pumps
  - Injectors
  - Turbos
  - Water pumps
  - Particulate filters, etc.
- Warranty – carries a Cummins Nationwide Warranty

SERVICE

QuickServe Bays

- 15 minute assessment, dedicated bay for service events under 2 hours

Guidanz w/Immediate Assessment

- 15 minute guarantee to receive assessment or $250 credit

Chassis dynos

- Short dyno and full dyno with horsepower readings, blow-by reading, etc.

Flat rate pricing

- Flat rate on maintenance events, overhauls, health checks, DPF Cleaning, tune ups, health checks, ECM calibrations, etc.

RV service / Coach Care

- First nationwide, full-service network exclusively for RV's

WARRANTY

Extended coverage

- New engine coverage for agriculture, bus, construction, fire & emergency, light commercial vehicle, medium duty truck, heavy duty truck, marine, mining, motorhome, oil & gas, power generation, rail

Encore / Encore Xtra

- Used Engine Coverage
- Available on ISB, ISC, ISL, ISM and N14 (EPA 10 and older)
- Available on ISX (EPA 2013), ISX12 G (EPA 2013)
- Available on B3.3, B3.9, B5.9, C8.3, L10, M11, and N14 engines in the United States and Canada used in agricultural or construction application

NOW coverage

- National overhaul warranty
- Parts and labor are 100% covered
- Coverage on replacement parts, inspected parts and installation workmanship related to covered parts
- Travels with you throughout the U.S. and Canada

Genuine parts vs. non-genuine parts

Genuine Cummins parts: There is a difference

The difference between a Genuine Cummins part and non-genuine part isn't always easy to see. It can be something as small as a ring gap that's a couple of millimeters too wide on a non-genuine part.

In a Cummins engine, that small difference could result in:

- Less power
- Insufficient lubrication
- Poor fuel economy
- Premature wear
- Catastrophic engine failure

- The following diagram demonstrates how Cummins parts are always better for a Cummins engine based on analytical testing of Cummins genuine parts against non-genuine counterparts.
- While customers may save a little money up front by purchasing non-genuine parts, it could cost them a lot more in the long run.

GENUINE

Considered the heart of the engine, the piston is a critical component that performs under stressful and demanding conditions.

Benefits:

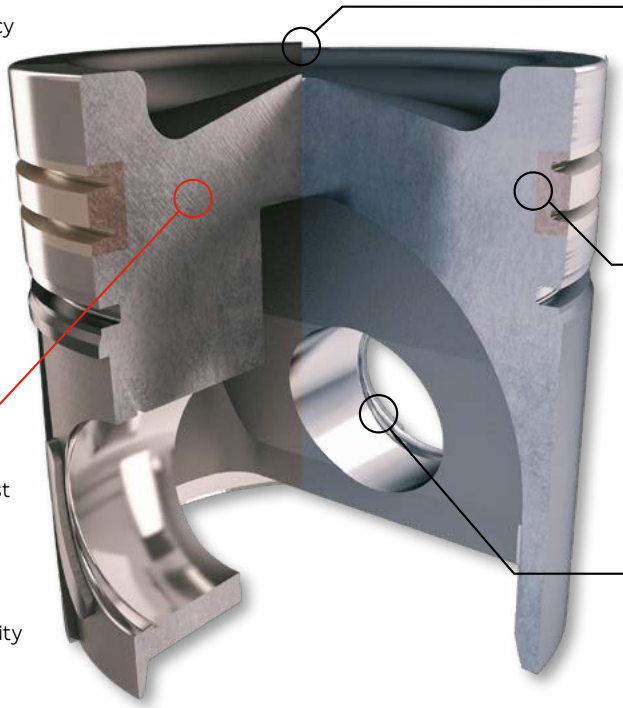
- Better combustion efficiency
- Better emissions
- Optimally designed for durability and longevity
- Better fuel economy

31% stronger

due to better metallurgical technology and process

Provides:

- Increased protection against corrosion and wear
- Higher heat resistance
- Less potential for cracking
- Better reliability and durability



NON-GENUINE

Bowl height is over **10% shorter**

Risks:

- Less efficient combustion
- Poor emissions performance

Piston exhibits debond in the ring carrier

Risks:

- Cracking
- Crown disintegration
- Air and fuel blowby

Piston offset is more than **3% smaller**

Risks:

- Increased friction and wear
- Inefficient piston thrust

The potential for failure is magnified

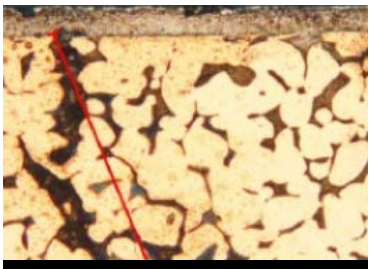
Here, part by part, are specific examples of the quality issues in materials, design and manufacturing as well as the problems that would result.

Part	Issue	Damage / Performance Impact
Pistons	Shallow ring grooves	Ring breakage, high oil consumption, blowby, scuffing
	Out-of-spec bowl dimensions	Excess heat, cracking, high fuel consumption, visible smoke
	Debonding of ring carriers	Catastrophic engine failure
Piston rings	Out-of-spec ring angles	Insufficient sealing, excess fuel usage, decreased performance
	Incorrect size of oil ring (too thick)	Poor oil scraping, excessive oil consumption
	Incorrect size of top ring (too thin)	Excess rotation, poor sealing, increased blowby
Piston pins	Missing from some kits	Repair delays, downtime, extra cost
	Out-of-spec outer diameters	Incorrect fit issues, repair delays
	Intergranular oxidation	Manufacturing defect, increased potential for premature fatigue and cracking
Cylinder liners	Oversize outer diameters	Radial stress leading to metal fatigue
	Insufficient lower outer diameters	Liner rocking and fretting
	Oversize inner diameters	Cavitation leading to pitting, coolant leaks and mission-disabling failure
	Improper cross-hatching	Compromised lubrication, increased wear, higher blowby and oil consumption, decreased service life
	Excess crystals in liner coating	Poor coating adhesion
	Insufficient metal strength	Premature wear, potential failure
Valve springs	Below spec for hardness	Degraded performance over time
	Insufficient height load	Improper seating resulting in combustion leaks and premature wear-out of valve seat inserts
Valve seat inserts	Runout does not meet specifications, can't square to seat	Increased wear, combustion leakage, potential valve failure
Connecting rod bearings	Tangs too narrow	Interference issues, misalignment of oil holes hindering oil flow
	Metals sintered, not cast	Lower corrosion resistance
	Excess lead pooling	Fatigue cracking
Connecting rod bushings	Excess lead in lining layer	Delamination and cracking

Non-genuine piston shows debond that could potentially lead to engine failure

Microstructure of non-genuine piston shows cracking and misalignment

Erosion of cylinder liner outer surface which can lead to coolant contamination of oil



Non-genuine connecting rod bearing microstructure shows probable cracking due to lead pooling.

Why choose Cummins Genuine parts

NOT ALL PARTS ARE CREATED EQUALLY

Engine components must be accurate to specifications that can't be discerned by the human eye. Precision design, state-of-the-art manufacturing and rigorous testing ensure that Genuine Cummins parts perform at Cummins factory-specified levels of efficiency, reliability and durability.

BETTER PARTS, BETTER AVAILABILITY

Cummins distributors and dealers stock thousands of commonly used parts in local inventory. If for some reason the part is not already in stock, we can quickly obtain it through our global logistics network. Regardless of where the customer is located, we can find the exact Genuine Cummins part they require, and have it expedited to them, minimizing downtime and any associated loss in productivity.

A BETTER WARRANTY THAT TRAVELS WELL

Genuine Cummins quality is the reason our parts come with a full factory warranty. Cummins parts warranty is comprehensive, ensuring peace of mind and financial protection. Every part is backed 100% for parts, labor, progressive damage and consumables, with no deductible. At any of our 9000 authorized service locations worldwide, the warranty will be honored, and the work will be completed by Cummins-certified technicians.

Genuine Cummins DPFs vs. will-fit DPFs

The Genuine difference

It's important to know the difference between Genuine Cummins and will-fit DPFs. To keep trucks running at optimum levels – long-term or short-term, the best choice is a Cummins part.

Cummins invests millions in developing emissions expertise, from research and development to test cells and production facilities.

Our aftertreatment units are designed to work with the engine as part of a completely integrated system.

CUMMINS GENUINE DPF BENEFITS:

- Maximize performance and fuel economy
- Minimize downtime and maintenance costs
- Reduce active regenerations and emissions

"Will-fit" parts do not have the resources or technology to deliver a comparable product.

Counterfeit products and imitations are not designed to be integrated into the Cummins system, and can result in:

- Engine damage
- Poor performance

See the next page for a technical analysis comparing a Genuine Cummins DPF for a 2007 ISX15 engine to the competitor's "will-fit" DPFs.

Harmful effects of higher backpressure

Here is an example of a will-fit DPF on a real Class 8 truck.

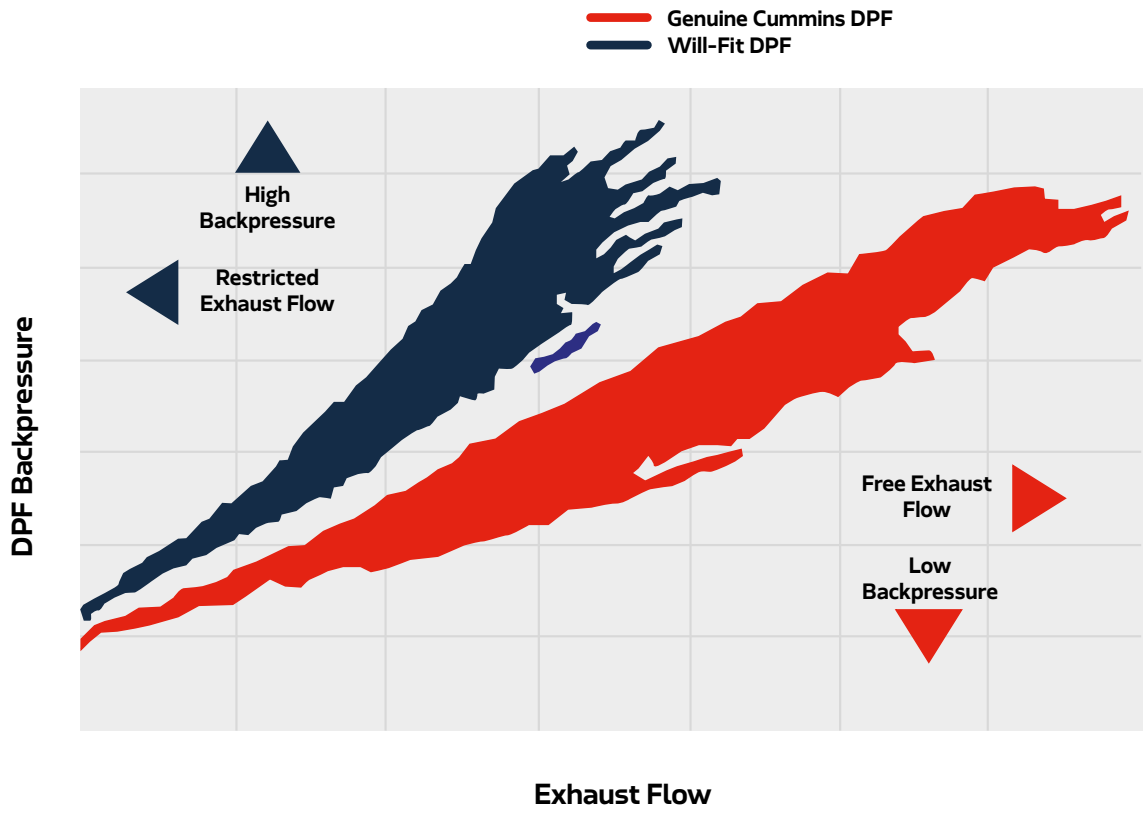
Results demonstrated restricted exhaust flow through the filter and higher levels of backpressure due to channel size and rapid accumulation of soot.

Despite relying on increasing backpressure, continuous restriction can have a negative effect on the reliability and durability of upstream components.

Negative impacts of higher backpressure:

- Premature wear and failure on the turbocharger
- Reduction in engine fuel economy

Backpressure comparison



Actual test results: The will-fit DPF, represented in blue, demonstrates higher backpressure and less exhaust flow during real-world operation when compared with the Genuine Cummins DPF, represented in red.

Critical geometric properties of Genuine Cummins DPFs

Property	Genuine Cummins	Will-fit A	Will-fit B
Cell density (cpsi nominal+/-tolerance)	In spec	Out of spec	Marginally in spec
Wall thickness (mil nominal+/-tolerance)	In spec	Out of spec	Out of spec
Median Pore Size (MPS range)	In spec	Out of spec	Out of spec
OFA estimate*	Baseline	14% < baseline	7% < baseline

*OFA = Open Frontal Area; baseline for Genuine Cummins substrate material

This chart shows the difference between Genuine Cummins DPFs and will-fit DPFs in filter cell wall thickness, cell density and wall pore size, all of which can affect backpressure by limiting the Open Frontal Area (OFA) that exhaust gas flows through, causing poor fuel economy and possible turbo damage.

PRECIOUS METAL CONTENT IS CRITICAL

The catalytic action (converting unburned hydrocarbons and raising temperatures) of the DPF is a critical function for maintaining an efficient exhaust system through passive regeneration.

The right amount of precious metal content and the right distribution are critical.

Using a will-fit DPF could result in significant consequences in the Selective Catalytic Reduction (SCR) portion of the aftertreatment system, leading to:

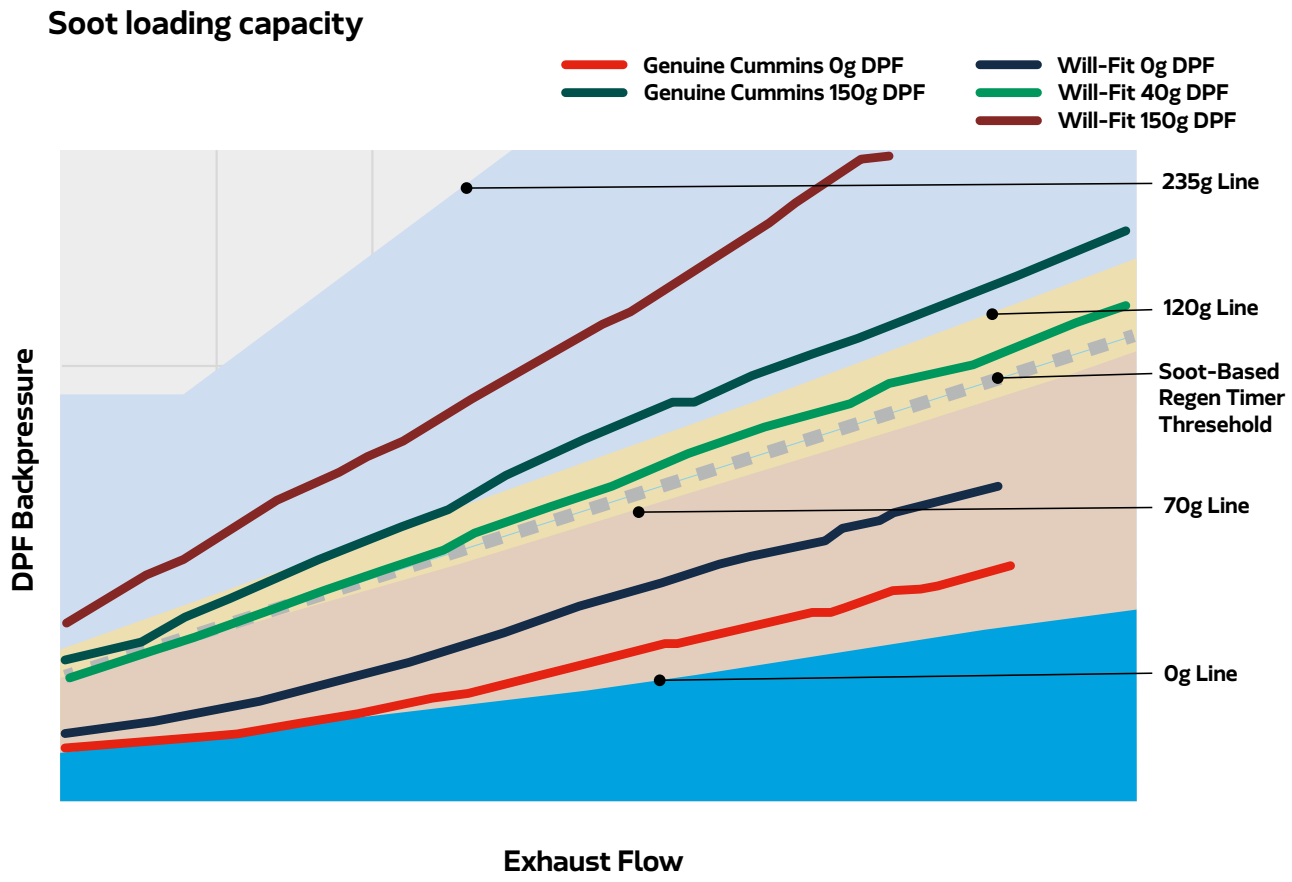
- Increased service requirements
- Increased downtime
- Loss of revenue for the customer

Will fit DPFs are also not as efficient in converting hydrocarbons (HCs) and oxides of Nitrogen (NOx) which can trigger fault code lamps and increased Diesel Exhaust Fluid (DEF) consumption in the SCR portion of the aftertreatment system. It also can result in:

- Lower fuel efficiency (due to over-reliance on active regeneration)
- Reduced product life of various components exposed to greater thermal shock.

Why higher soot capacity matters

Although will-fit DPFs and Genuine Cummins DPFs look to be roughly the same size, the design and construction of the filter chambers are significantly different, and therefore hold different amounts of soot.



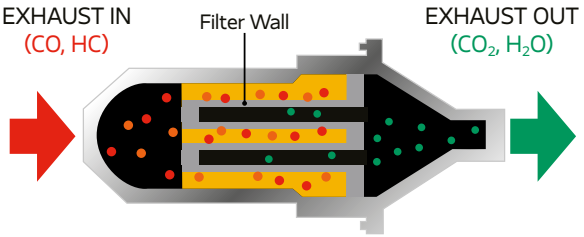
The chart above demonstrates:

- At zero grams of soot loading, the will-fit DPF produced more engine backpressure
- The will-fit DPF triggered regenerations at 40 grams, while the Genuine Cummins DPF held up to 150 grams of soot before an active regeneration took place
- In a field test, a will-fit DPF nearly doubled the number of active generation events during normal operation

A will-fit DPF can create multiple issues in fluid consumption, performance and durability.

More frequent active regenerations can result in worse fuel efficiency. Regenerations raise exhaust temperatures higher than 1000F or 600C, and that can happen twice as often with a will-fit DPF. Those increased heat cycles can lead to:

- Metal fatigue on the exhaust pipes and canister
- Increased risk of the DPF cracking and / or melting
- Additional wear on a number of other upstream engine components



The Genuine Cummins DPF has 3.75 times the soot capacity as will-fit DPFs.

Coming clean: Where will-fit DPFs fail. Again.

When a DPF fault code is registered, a restriction test determines whether the DPF needs to be cleaned. Before the test takes place, a stationary regeneration is conducted to remove soot.

The graph below shows that after a stationary regeneration, the Genuine Cummins DPF allowed adequate exhaust flow, passing the restriction test and eliminating the need for field cleaning service.

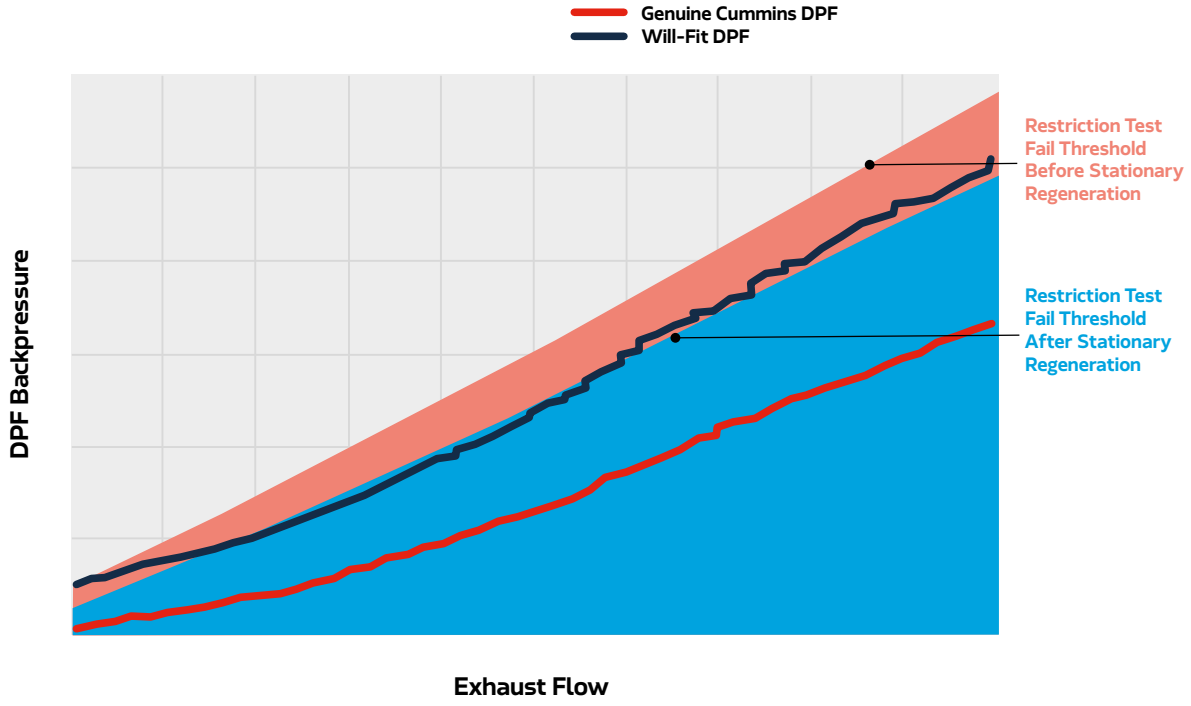
The will-fit DPF was still over the threshold for failure, and time-consuming, costly field cleaning would have been required.

Will-fit DPFs require more frequent cleanings because they have a lower capacity for ash storage. This results in:

- A higher total cost of ownership with reduced fuel economy
- More frequent regeneration events
- Greater downtime

When a DPF fault code is registered, a restriction test is required to determine whether the DPF needs to be cleaned.

Restriction test comparison



Based on the performance differences, owners can plan on buying two will-fit DPFs versus one Genuine Cummins DPF. That's roughly $1,400 extra for the DPFs alone. Downtime, missed deliveries, reduced fuel efficiency and labor all add even more to operating and maintenance costs.

ReCon engines: the smart choice

When to consider a Cummins ReCon engine?

A Cummins ReCon engine is regarded in the marketplace as a high-quality alternative to an out-of-frame overhaul. Present the ReCon engine program to your customers with confidence. With a remanufactured option, the warranty exposure of doing in-house out-of-frame overhauls can be avoided.

CONSIDER A RECON ENGINE WHEN:

- Equipment duty cycle dictates the need for a complete engine out-of-frame overhaul to ensure maximum reliability, durability and performance.
- Extensive block, crankshaft or camshaft repair is needed
- Revenue loss from equipment down time needs to be minimized
- Your customer is in any the following situations:
  - Has chronic engine problems
  - Is pressed for time
  - Purchased a fixer upper
  - Equipment is high value
  - Loves their equipment
  - Wants a lower total cost of ownership
- The following is important to your customer:
  - Resale value
  - Warranty protection
  - Extending the life of the equipment

ReCon engine features, benefits and key selling points

FEATURES AND BENEFITS

- Reliability and durability are enhanced
- Operating costs are lowered through product upgrades and reduced maintenance
- Upgrades may reduce emissions and improve engine performance
- ReCon engine exchange enhances productivity with rapid equipment turnaround versus repairing or rebuilding options
- Environmental advantages of upcycling the core
- Qualified parts are remanufactured to Cummins factory specifications
- Transfers warranty risk of repairs from distributors to Cummins. The likelihood of errors decreases due to the factory environment, which incorporates a robust set of processes and test procedures
- Service work can be undertaken without investing in costly test equipment or facilities
- Allows distributors to stay in sales dialogue when the cost of a new engine is too high
- Downtime is reduced and performance improved

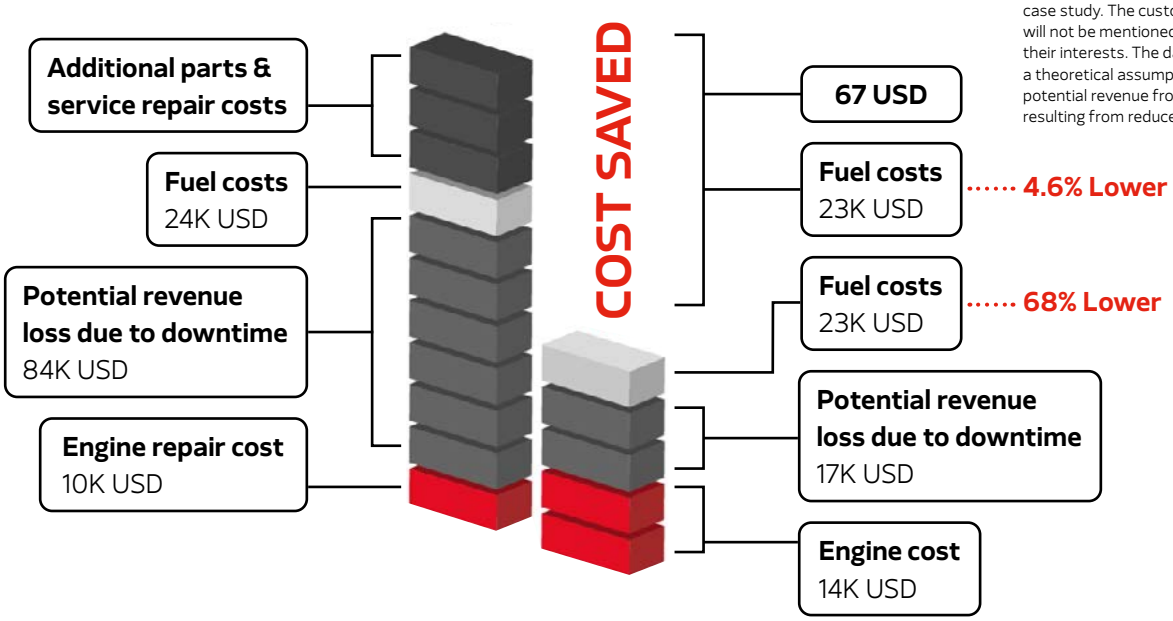
KEY SELLING POINTS

- Remanufactured to latest Cummins performance specifications for improved performance and fuel economy
- 100% Genuine Cummins new or ReCon parts for highest quality and durability
- Every engine is tested at the Cummins remanufacturing plant before shipping
- Low cost or no cost uprates for more horsepower and newer Cummins engine technology
- No hassle engine core acceptance based on a simple visual inspection with no disassembly and no surprise bill backs
- Fast turnaround gets your customers back on the job and frees your service bays from costly machine shop delays
- The best warranty in the business, backed by the largest and best independent service network in the world

The smart choice discussion guide: Customer case study

Ownerships costs per engine in one year

Note: Data presented below was collected from a recent customer case study. The customer name will not be mentioned to protect their interests. The data here is a theoretical assumption of the potential revenue from the uptime resulting from reduced downtime.



UNAUTHORIZED REBUILDS

14 days downtime

RECON ENGINES

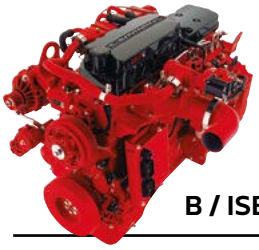
3 days downtime

CASE STUDY ANALYSIS

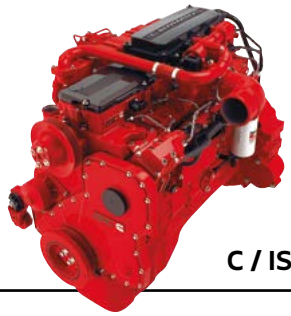
- Compared to uncertified rebuilds, the use of Cummins ReCon engines resulted in monthly operational cost savings of 5k USD per engine.
- Cummins ReCon engines virtually eliminated downtime in all of their Cummins powered equipment from 14 days to 3 days. Total downtime savings over the first 6 months more than paid for the initial ReCon engine investment.
- Potential revenue loss was 68% lower when using Cummins ReCon engines compared to performing uncertified rebuilds.
- ReCon engines only required scheduled maintenance and minor repairs during the first 3 years, while many uncertified rebuilds frequently broke down after the first 6 months of warranty.
- ReCon engines returned a 4.6% fuel cost improvement compared to the uncertified rebuilt engines.
- Parts and labor expenses from uncertified rebuilds stacked up. Each uncertified rebuilt engine can cost an estimated 67K USD per year in breakdowns, downtime, fuel, parts and labor.
- The price of a Cummins ReCon engine may be an additional 4K USD upfront, but could save a customer thousands and virtually eliminate downtime.
- This customer repowered their fleet with approximately 100 ReCon engines – if the use of one Cummins ReCon engine can save an estimated $67k per year, imagine what 100 Cummins ReCon engines can save.
- Suppliers who repair or rebuild components simply can't come close to the proven quality and precision craftsmanship of the Cummins remanufacturing process.

ReCon engine product line

Cummins offers a full line of remanufactured engines, long blocks and short blocks. The tables on the following pages shows the product content of ReCon engines from the 4B to the QSK19. Each order is unique, and there could be differences based on the engine specifications.



B / ISB / QSB

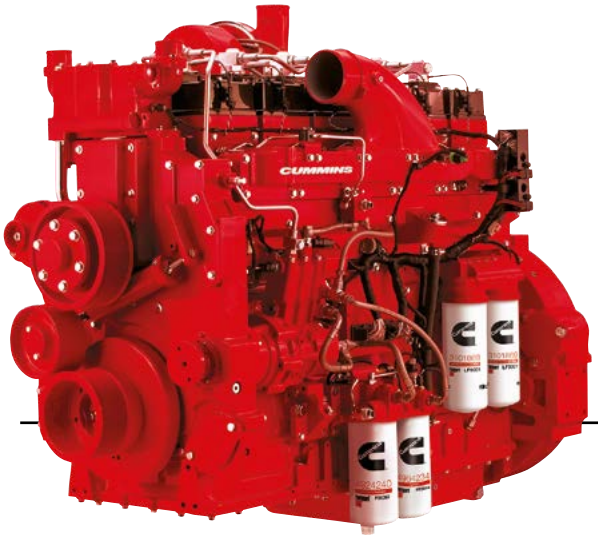


C / ISC / QSC / ISL / QSL

ISM / QSM

NH / N14

X15



K19 / QSK

ReCon engine and block standard content

MidRange ReCon engines

Product content	4B/6B/6C	ISB/QSB 3.9/5.9	ISB/QSB 4.5/6.7	ISC/QSC ISL/QSL 8.3/8.9
Cylinder block	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓
Cylinder head	✓	✓	✓	✓
Connecting rods	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓
Pistons and rings	✓	✓	✓	✓
Injectors	✓	✓	✓	✓
Fuel pump	✓	✓	✓	✓
Fuel lines	✓	✓	✓	✓
Oil pan	✓	✓	✓	✓
Oil cooler	✓	✓	✓	✓
Lube pump	✓	✓	✓	✓
Thermostat housing	✓	✓	✓	✓
Turbocharger	✓	✓	✓	✓
Valve cover	✓	✓	✓	✓
Water pump	✓	✓	✓	✓
Exhaust manifold	✓	✓	✓	✓
Wiring harness	N/A	✓	✓	✓
ECM	N/A	✓	✓	✓
Flywheel housing			✓	

*Product content differs. Please refer to QuickServe Online to verify option content before ordering.
Use the ReCon Engine Product Line Data – CPL Lookup to search for short and long blocks by CPL.

Heavy-duty and high-horsepower ReCon engines

Product content	LTA 10	LTAA 10	M11	ISM/ QSM 11	BC 14	N 14	N 14 STC	ISX/QSX 12/15	K 19	QSK 19
Cylinder block	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cylinder head	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connecting rods	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pistons and rings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Injectors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fuel pump	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fuel lines	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil pan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil cooler	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lube pump	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermostat housing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Turbocharger	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Valve cover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water pump	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Exhaust manifold	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wiring harness	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓
ECM	N/A	✓	N/A	✓	N/A	✓	✓	✓	N/A	✓
Flywheel housing	✓		✓	✓				✓	✓	✓

MidRange ReCon long blocks

Product content	4B 3.9 6B 5.9	ISB/QSB 3.9	ISBE 3.9	ISB/QSB 4.5	ISB/ QSB 5.9	ISB/ QSB 6.7	6C 8.3	ISC/QSC 8.3	ISL/ QSL 8.9
Cylinder block	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cylinder head	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connecting rods	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pistons and rings	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil pan	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil cooler	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lube pump	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermostat housing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Valve cover	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water pump	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rocker lever assemblies	✓	✓	✓	✓	✓	✓	✓	✓	✓
Injectors*		✓	✓	✓	✓	✓		✓	✓
Flywheel housing			✓	✓		✓			
Cylinder liners							✓	✓	✓
Push tubes	✓						✓		
Rear crankshaft cover	✓	✓		✓	✓	✓	✓	✓	✓
Rear gear housing			✓			✓			
Tappets	✓						✓		

Heavy-duty ReCon long blocks

Product content	M/ISM/ QSM 11	N14	N14 STC	ISX/QSX 12/15
Cylinder block	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓
Cylinder head	✓	✓	✓	✓
Connecting rods	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓
Pistons and rings	✓	✓	✓	✓
Oil pan	✓	✓	✓	✓
Oil cooler	✓	✓	✓	✓
Lube pump	✓	✓	✓	✓
Thermostat housing	✓	✓	✓	✓
Valve cover	✓	✓	✓	✓
Water pump	✓	✓	✓	✓
Rocker lever assemblies	✓	✓	✓	✓
Injectors*	✓	✓	✓	✓
Flywheel housing	✓	✓	✓	✓
Cam followers	✓	✓	✓	✓
Cylinder liners	✓	✓	✓	✓
Push tubes	✓	✓	✓	
Rear crankshaft cover	✓	✓	✓	
Rear gear housing	✓			✓

*Product content differs. Please refer to QuickServe Online to verify option content before ordering.

ReCon short blocks

Even greater savings are available when all your customer needs is a Cummins ReCon short block.

A short block is typically used when an engine has block damage, there is no oil contamination and the cylinder head can be reused. While it has the same manufacturing quality, fewer components are included.

The table below shows the product content of our short blocks. Consider this to be general information; there could be different content depending on the specification of the short block.

Engine family	Cylinder block	Crankshaft	Connecting rods	Pistons & rings	Cylinder liners
4B / ISB / QSB3.9	✓	✓	✓	✓	
ISB / QSB4.5	✓	✓	✓	✓	
6B / ISB / QSB5.9	✓	✓	✓	✓	
ISB / QSB6.7	✓	✓	✓	✓	
6C / ISC8.3	✓	✓	✓	✓	✓
ISL / QSL8.9	✓	✓	✓	✓	✓
M / ISM / QSM11	✓	✓	✓	✓	✓
N14	✓	✓	✓	✓	✓
ISX / QSX12	✓	✓	✓	✓	✓
ISX / QSX15	✓	✓	✓	✓	✓

ReCon long blocks

A Cummins ReCon long block is a high quality alternative to purchasing a full engine, allowing the customer to save money by using a greater portion of the existing components.

In the remanufacturing process of long blocks:

- All worn parts are replaced with Genuine Cummins parts
- Parts not replaced are inspected and tested to verify their integrity
- Electromagnetic particles are used to inspect the block, crankshaft and camshaft for cracks
- The bore is limited to a maximum second oversize

The next table shows the product content of our long blocks. A long block contains more parts than a short block but is not a complete engine. The table contains general information; contents of a long block may vary by specifications.

ReCon engine extended coverage

RECON ON-HIGHWAY PROTECTION PLAN I - MD AND HD TRUCK

Program ID P1R Bulletin 4081755	4B/6B/ISB	C/ISC/ISL	N14, M11, L10, ISM, ISX	N14, M11, L10, ISM, ISX
Years	3	3	3	2
Miles	100,000	100,000	200,000	200,000
Kilometers	160,935	160,935	321,869	321,869
Matrix	83411	83411	83420	83420

RECON ON-HIGHWAY PROTECTION PLAN II - MD AND HD TRUCK

Program ID P2R Bulletin 4081756	4B, 6B, ISB			C, ISC			ISL			N14, M11, L10, ISM, ISX		
Years	4	5	5	4	5	5	4	5	5	3	4	5
Miles	150,000	200,000	300,000	150,000	200,000	300,000	150,000	200,000	300,000	300,000	400,000	500,000
Kilometers	241,402	321,869	482,804	241,402	321,869	482,804	241,402	321,869	482,804	482,804	643,738	804,672
Matrix	83511			83511			83511			83520		

RECON SCHOOL BUS COVERAGE

Bulletin 3605912 Bulletin 3385468	6B/ISB and C/ISC						
Years	5	5	5	7	5	5	5
Miles	150,000	200,000	Unlimited	150,000	150,000	200,000	Unlimited
Kilometers	241,402	321,869	Unlimited	241,402	241,402	321,869	Unlimited
Program ID	REC	REC	REC	REC	RXC	RXC	RXC
Matrix	82211	82211	82211	82211	83311	83311	83311

RECON TRANSIT BUS COVERAGE

Bulletin 3381312	4B, 6B, C/ISC, ISL, L10, M11, ISM			
Years	5	5	5	5
Miles	200,000	300,000	400,000	500,000
Kilometers	321,869	482,804	643,738	804,672
Program ID	RTB	RTB	RTB	RTB
Matrix	80111	80111	80111	80111

RECON B AND C GAS PLUS TRANSIT - SHUTTLE - COACH

Bulletin 3381312	B and C Gas Plus	
Years	5	5
Miles	200,000	300,000
Kilometers	321,869	482,804
Program ID	RWB	RWB
Matrix	81112	81112

RECON RV AND FIRE TRUCK COVERAGE

Bulletin 3381368	ISB, ISC, ISL, ISM, ISX	
Years	5	5
Miles	150,000	200,000
Kilometers	241,402	321,869
Program ID	FTR	FTR
Matrix	70111	70111

RECON MARINE EXTENDED COVERAGE

Bulletin 4082072 Bulletin 4082073	4B/6B/QSB			C/ISC			QSM, N14			K 19, QSK 19
Years	3	3	5	3	3	5	3	3	5	3
Hours	7,500	10,000	12,000	7,500	10,000	12,000	7,500	10,000	12,000	10,000

$100 deductible charge per service visit for all engines of less than 3.9 liter displacement

$200 deductible charge per service visit for all engines of 3.9 liters and above but less than 19 liter displacement

$300 deductible charge per service visit for all engines of 19 liters or more displacement

***All Extended Coverage Program details, pricing and availability are subject to change - BE SURE TO REVIEW SEISMIC FOR THE LATEST INFORMATION.**

Genuine Cummins Overhauls

Benefits to Overhauling

AVOID ENGINE FAILURE

If a customer is, for example, nearing $500,000 miles, a Genuine Cummins Overhaul will help them avoid catastrophic engine failure before it happens.

SAVE TIME, HASSLE, AND MONEY

Scheduling an overhaul in advance of trouble helps avoid the costs, hassles, downtime, and limited options that result from roadside breakdowns.

BUNDLE TO SAVE

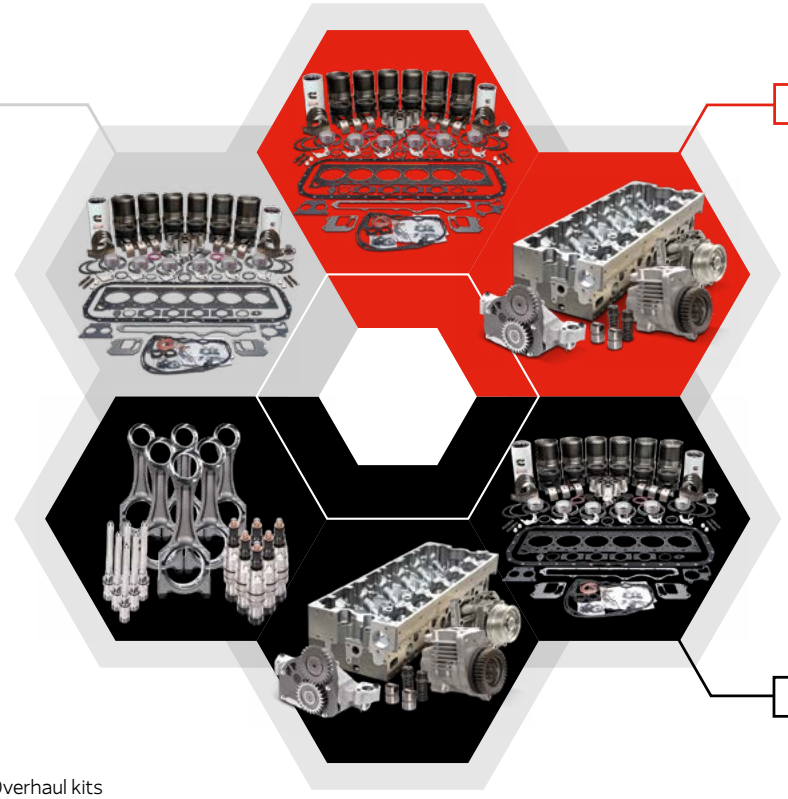
Our experts can handle other necessary repairs like oil changes, at the same time, preventing future issues and protecting the customer's investment.

INCREASE RESALE VALUE

A Genuine Cummins Overhaul gives the buyer peace-of-mind, which gives your customer's vehicle better resale value.

CLASSIC

- Pistons and Rings
- Cylinder Liners
- Main Bearings
- Upper Engine Gasket Set
- Piston Cooling Nozzles
- Connecting Rod Bearings
- Oil Pan Gasket
- Fuel and Lube Filter
- Oil Bypass Valve
- Coolant Thermostat
- Turbo Studs / Locknuts



PRO

CLASSIC KIT +

- ReCon® Cylinder Head
- ReCon® Lube Oil Pump
- ReCon® Water Pump
- ReCon® Fuel Pump (Short Block)*
- Fuel Pump Roller Tappet*
- Fuel Pump Barrel and Plunger*

ELITE

PRO KIT +

- Fuel Connectors
- ReCon® Connecting Rods
- ReCon® Fuel Injectors

*Not included in ISX 12 liter Overhaul kits

Why choose Genuine Cummins overhauls?

ONGOING SUPPORT

- Over 200 Cummins-operated service locations in US and Canada
- Warranties honored at over 4,000 Cummins-certified locations in North America
- Cummins Care team is available for support: care.cummins.com

GENUINE PARTS

- Maximize uptime
- Engineered for dependability
- Latest product improvements included
- Backed by Cummins

NOW (NATIONAL OVERHAUL WARRANTY)

- Peace-of-mind with extended coverage
- 2 and 3 year options

EXPERT REPAIRS

- Professional engine technicians
- Advanced engine knowledge
- Standardized repair processes

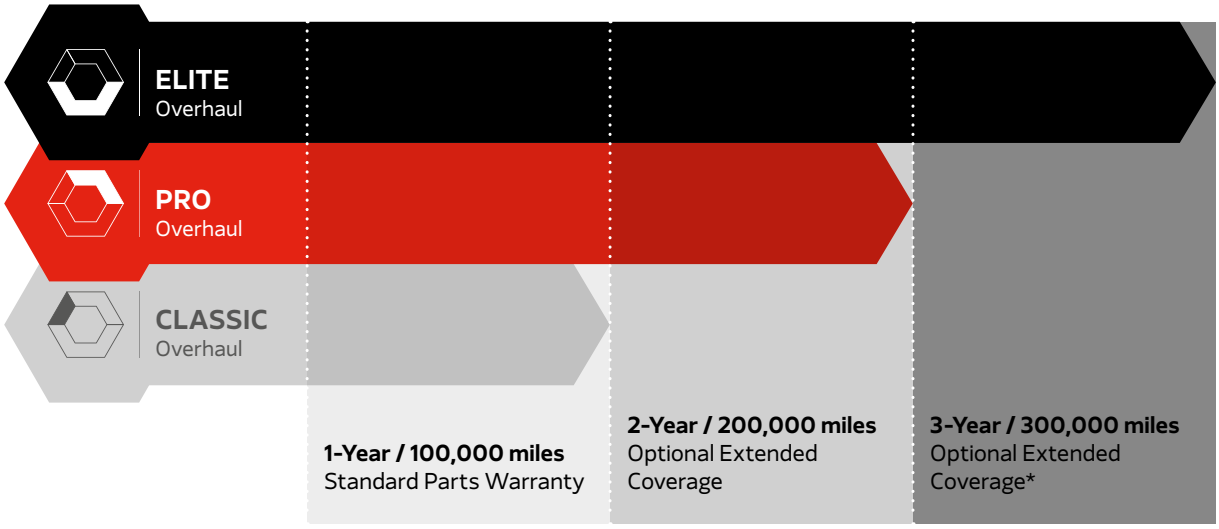
FINANCIAL ASSISTANCE

- Financing options available to help customers manage their most important asset

BUNDLED SAVINGS

- Overhaul kits are priced at a reduced cost versus buying parts individually
- Savings increase with each tier

NOW (National Overhaul Warranties)



*NEW 3-yr coverage available: Must purchase Elite kit to become eligible for 3 year extended coverage option

Part numbers by CPL

CPL	EPA Certification	Control Module	Engines Built	CLASSIC Kit	PRO Kit	ELITE Kit
ISX-15L-CM2250						
3348 **3376** **3490** **3491** **3688**	2010	CM 2250	44,000	5579450 (150mm) 5579451 (152mm)	5579452RX (150mm) No Release (152mm)	5579453RX (150mm) No Release (152mm)
3606	2010	CM 2250	19,986	5579454 (150mm) 5579455 (152mm)	5579456RX (150mm) No Release (152mm)	5579459RX (150mm) No Release (152mm)
3719	2010	CM 2250	66,000	5579460 (150mm) 5579461 (152mm)	5579462RX (150mm) No Release (152mm)	5579464RX (150mm No Release (152mm)
ISX-15L-CM2350						
3766 **3939** **4585** **4588**	2013	CM 2350	45,000	5579454 (150mm) 5579455 (152mm)	5579457RX (150mm) No Release (152mm)	5579458RX (150mm) No Release (152mm)
3937 **4583** **4586** **4761**	2013	CM 2350	159,000	5579460 (150mm) 5579461 (152mm)	5579463RX (150mm) No Release (152mm)	5579465RX (150mm) No Release (152mm)
3938 **4584** **4585** **4587** **4588**	2013	CM 2350	21,814 9,127 12,349 5,275 8,187	5579454 (150mm) 5579455 (152mm)	No Release (150mm) No Release (152mm)	No Release (150mm) No Release (152mm)
ISX-12L-CM2250 & CM2350						
3438 **3439** **3440**	2010	CM 2250	16,299	5579425	5579439RX	5579441RX
3711 **3712**	2013	CM 2350	14,316	5579425	5579440RX	5579442RX

Warranty

Cummins engines

Automotive Engines	Months	Mileage/KM/HRS
4B / ISB4 Series	24	50,000 / 80,468
2017 EPA B / B6.7 / ISB	36	Unlimited
B / B Gas Plus / B LPG Plus / ISB / ISV / V5.0	24	Unlimited
ISC / ISL / ISL G / C Gas Plus	24	250,000 / 402,336 / 6,250
L10 / M11 / ISM / N14 / ISX / Signature*	24	250,000 / 402,336 / 6,250
2010 EPA & 2013 EPA ISX11.9 (ISX12) / ISX15	24	250,000 / 402,336 / 6,250
2017 EPA X12 / X15	24	250,000 / 402,336 / 6,250
Fire Truck / Crash Truck**	60	100,000 / 160,935
All Buses (except U.S. / Canada school buses)	24	Unlimited
U.S. / Canada School Bus	60	100,000 / 160,935
RV - ISB AD**	36	75,000 / 120,701
All Other RV Engines**	60	100,000 / 160,935

** Injectors are covered for 2 years / 125,000 miles / 201,169 km / 3,125 hours.
** Deductibles apply. Refer to Warranty Administration manual for deductible details.

Industrial Engines	Months	Hours
All Industrial Engines***	24	2,000

***If the 2,000-hour limit is exceeded during the first year, coverage continues until the end of the first year.

Genuine Cummins new parts

Components	Months	Mileage/KM/HRS
Centinel™		
• **Automotive**	24	250,000 / 402,336 / 3,600
• **Industrial**	12	Unlimited
N Series / L10 / M11 / ISM / ISX	12	100,000 / 160,935 / 3,600
A, B / B Gas Plus / B Gas International / B LPG Plus / ISB5.9 G / ISB / QSB, C / C Gas Plus / ISC / QSC, ISF, ISL / ISL G / QSL- engines up to 10L	12	100,000 / 160,935 / 3,600
K19 / QSK19 / QSK23 / QSK45 / QSK60 / QSK78	12	Unlimited
Cummins Cylinder Kits:		
• **All 1991 and Newer N14 TriTech® Plus Cylinder Kits**	36	300,000 / 482,804 / 10,800
• **Single Ni TriTech Plus**		200,000 / 321,869 / 7,200
• **Dual Ni TriTech**		300,000 / 482,804

Variable Geometry Turbos (VGT) and VGT Actuators for automotive applications must be diagnosed in on engine condition by an ISX certified repair facility to qualify for warranty exchange.

Extended Major Components Warranty covers major components (registered parts only) on new engines as follows:

- L10 / M11 / ISM / N14 / ISX / Signature automotive engines – 5 years / 500,000 miles / 804,676 km
- Industrial engines – 3 years / 10,000 hours
- Coach / Transit / Shuttle / School Bus – 3 years / 10,800 hours / 300,000 miles / 482,805 km

Cummins ReCon parts

Components	Months	Mileage / KM / Hours	Labor	Other Claimables
ReCon Electrics	12	Unlimited	Y	N
Components - Engines up to 18L (except fuel pumps, injectors and electrics)*	12	100,000 / 160,935 / 3,600	Y	Y
ReCon High-Volume Water Pumps**	24	200,000 / 321,870 / 7,200	Y	Y
ReCon Premium Gold Cylinder Head***	24	200,000 / 321,870 / 7,200	Y	Y
Injectors and Fuel Pumps - engines up to 18L	12	Unlimited	Y	Y
Heavy-Duty ReCon PX Injectors - L10 / M11 / ISM N14 / ISX Pre EPA 2010	24	125,000 / 201,168 / 3,600	Y	Y
MidRange ReCon Injectors	12	Unlimited	Y	N
All Other HD Components Except Electrics	12	100,000 / 160,935 / 3,600	Y	Y
CELECT™ & HPI RX Injectors for N.A. and Mexico	12	Unlimited	N	N
ReCon RX Injectors for N.A. and Mexico	12	100,000 / 160,935 / 3,600	Y	N
HHP ReCon Components	12	Unlimited	Includes parts, labor and travel	
HHP Major Components - 19L and above	36	10,800 hrs	Includes parts, labor and travel	
ReCon "XX" Products	6	Unlimited		
ReCon RX DPF Not Sold In CA.	12	100,000 / 160,935 / 3,600	Y	Y

***Variable Geometry Turbos (VGT) and VGT Actuators for automotive applications must be diagnosed in on engine condition by an ISX certified repair facility to qualify for warranty exchange.**

**Applies only to part numbers: AR4518RX, AR45184-1RX, AR45090RX, AR45090-1RX, 3045943RX, 3801708RX, 3801715RX, 3801788RX, 3803138RX, 3803605RX*

***Applies only to part numbers: 3652600RX, 3652807RX, 3652808RX, 3675504RX, 3675505RX, 3675506RX

Cummins ReCon engines / blocks

Automotive Engines	Months	Mileage/KM/HRS
B3.9	24	50,000 / 80,468
B5.9 / ISB / B Gas Plus / B LPG Plus	24	100,000 / 160,935
ISC / C8.3 / ISL / C Gas Plus / ISL G / L Gas Plus - Up to 225 hp	24	Unlimited
ISC / C8.3 / ISL / C Gas Plus / ISL G / L Gas Plus - 226 hp and Over	24	100,000 / 160,935
L10 / M11 / ISM / N / N14	12	100,000 / 160,935
ISM / ISC / ISL / ISB Transit (excluding hybrid)	24	Unlimited
ISX	24	200,000 / 321,869
4B / 6B / ISB / 6C / ISC / ISL Long Blocks	12	50,000 /80,468
L10 / M11 / ISM / N14 / ISX Long Blocks	12	100,000 / 160,935
4B / 6B / ISB / 6C / ISC / ISL Short / Service Blocks	6	Unlimited
L10 / M11 / ISM / N14 / ISX Short / Service Blocks	12	100,000 / 160,935

Industrial Engines	Months	Hours
All industrial engines***	24	2,000
All marine engines*	24	2,000
4B / 6B / 6C / L10 / M11 / N14 / K19 / QSB / QSC / QSL / QSM / QSX / QSK19 Long Blocks	12	1,000
6B / 6C / N14 / K19 Oil and Gas Long Blocks	12	Unlimited
4B / 6B / 6C / QSB / QSC / QSL Short / Service Blocks	6	Unlimited
L10 / M11 / N14 / K19 / QSM / QSX / QSK19 Short / Service Blocks	6	Unlimited

*If the 2,000-hour limit is exceeded during the first year, coverage continues until the end of the first year.

Cummins Service tools

Tools	Months	Coverage
QuickCheck™ 5600	12	Labor / parts
INLINE™ 6	12	100,000 / 160,935
INLINE™ 7	Manufacturer's warranty applies	
INLINE mini™	Manufacturer's warranty applies	
Genuine Tools	Lifetime	Repair or replace
Electrical products, instrumentation, gauges, motors and consumables	12	Repair or replace
Non-genuine tools	Manufacturer's warranty applies	

(Refer to Page i-3 of the Cummins Service Products Catalog, Bulletin 3377710-03, for details.)

Note: The warranty terms described within this card are correct at time of printing, subject to change without notice, and apply only to Genuine Cummins products purchased from an authorized Cummins distributor / dealer. Exceptions may apply. See individual warranty certificates for complete warranty coverage. Contact your local Cummins distributor or dealer for more details. The "Warranty Administration Manual" is published on QuickServe as bulletin: 4021290.

Service: Value proposition

- Factory certified technicians with industry leading diagnostics, job planning and quote accuracy.
- Consistent 7 step QuickServe process to ensure that the proper steps are followed for each repair.

IN-SHOP

- Immediate Assessment: 15 Minute Diagnosis to estimate down-time and provide an estimate of repair time and required parts
- Engine Health Check: Dyno*
- DPF Clean
- ECM Calibration
- Horsepower Uprates

*available at select locations

FIELD SERVICE

- Trained and tooled on all industrial engine platforms (including HHP) with fully equipped trucks.
- 24/7 support with 2 hour call back time in emergency situations.

VALUE PROPOSITION

- SRTs for all engine repairs: Pay for how long the repair should take, not how long the technician takes.
- Guardian Inspection: Complimentary multi-point inspection completed during troubleshooting designed to provide customer with recommended repairs/ maintenance to eliminate additional down-time.
- Warranty: Warranty repairs are best performed by factory certified technicians who work on components daily.
- Flexibility: Option to complete repairs with New Genuine Cummins Parts or Genuine ReCon Cummins Parts.

Allied products

PRODUCT OFFERINGS

Cummins' preferred partnerships with leading suppliers provide a wide range of offerings at exceptional prices. Please contact your local Cummins representative or nearest branch for additional information.

- Batteries for automotive, power generation, marine and recreational
- Lead Acid
- Premium and value line series
- Absorbent glass mat series
- Warranty range: 18-24-36 months
- Free replacement, no pro rate
- Direct shipping available to some locations

- Oils, greases, hydraulics and transmission fluids
- The only one exclusively endorsed/ recommended by Cummins
- Exceeds CK-4 specifications
- On-hwy, industrial, stationary, and natural gas engines
- Optimal performance and long engine life
- Approved for extended drains

- Idle reduction technology / reduce cold starting
- Cost effective engine off heating and air conditioning
- Fuel savings
- DPF savings
- Engine wear greatly reduced along with associated maintenance cost

- Filtration, coolant and service parts
- OEM specifications – meets or exceeds
- Product coverage – 8,000+ products
- Engineering – application specific
- Warranty – unmatched in industry
- Dependability – 50+ years
- DAVCO filtration solutions

- Diesel Kleen® +CETANE BOOST®
  - Cleans injectors and boosts performance
- Diesel Fuel Supplement® +CETANE BOOST®
  - Winterizer/ Antigel
- Diesel 9-1-1®
  - Emergency use winter product used to reliquefy gelled fuel and de-ice frozen fuel-filters
- Clear Diesel®

Available in select regions

- No stripped oil pans
- No slip and fall injuries from oil spilling on the floor
- No health and safety claims due to hot oil causing burns or getting on skin / splashing on face
- Speeds up oil changes
- Can be used with vacuum extraction systems

Available in select regions

- Bus transmissions
- Parts and service at competitive prices

Available in select regions

- Prevents fuel theft and vandalism
- Provides peace of mind
- Works great under extreme conditions
- Coating exceeds industry standards
- Rust and corrosion resistant
- Deters fuel contamination and sabotage
- Simple installation and use
- Built to exacting standards in Canada

Cummins batteries

PRODUCT

Extensive lineup of lead-acid batteries for everyday use in the coldest climates.

TARGET CUSTOMERS

Dealer network, oil distributors, OEMs, fleets and end-users

VALUE PROPOSITION

- **Cummins Coast to Coast Support:** Access to the largest and most capable parts and service support network in North America.
- **Warranty:** 12-24-month free replacement warranty.
- **Designed to last:** Quality construction, up to 10% more acid above the plates resulting in longer life.

UNITED STATES

BATTERY SYSTEMS

LABEL DESCRIPTION		BCI	NABS	CUMMINS	SAE RATINGS		CORE CLASS	CORE CHARGE	WARRANTY (MONTHS)				EST. WEIGHT		SEALED
		GROUP	PART	PART	CCA	RESERVE									
SIDE	TOP	SIZE	NUMBER	NUMBER		CAPACITY				LENGTH	WIDTH	HEIGHT	LBS	WET	MF
PREMIUM AUTOMOTIVE – 12 VOLT HIGH CRANK															
Premium	2" X 5"	35/75	RW75DT-HC	C75DT-HC	690	95	A	$18	36	9/1/2	7	8	34	WET	NO
Premium	2" X 5"	34/78	RW78DT-HC	C78DT-HC	770	115	A	$18	36	10-7/8	7	8	39	WET	NO
Premium	2" X 7.25"	24	RW24-HC	C24-HC	700	120	A	$18	36	10-1/2	6-6/4	8-3/4	42	WET	NO
Premium	2" X 7.25"	24F	RW24F-HC	C24F-HC	700	120	A	$18	36	10-1/2	6-6/4	8-3/4	42	WET	NO
Premium	2" X 7.25"	25	RW25-HC	C25-HC	550	90	A	$18	36	9-1/8	6-13/16	8-13/16	36	WET	NO
Premium	2" X 7.25"	26	RW26-HC	C26-HC	525	85	A	$18	36	8-13/16	6-3/4	6-13/16	28	WET	NO
Premium	2" X 7.25"	26	RW26R-HC	C26R-HC	540	81	A	$18	36	8-13/16	6-3/4	6-13/16	28	WET	NO
Premium	2" X 7.25"	27	RW27-HC	C27-HC	750	120	A	$18	36	12-1/16	6-13/16	8-7/8	49	WET	NO
Premium	2" X 7.25"	27F	RW27F-HC	C27F-HC	710	120	A	$18	36	12-1/16	6-13/16	8-7/8	50	WET	NO
Premium	2" X 7.25"	34	RW34-HC	C34-HC	800	110	A	$18	36	10-5/16	6-13/16	7-13/16	38	WET	NO
Premium	2" X 5"	35	RW35-HC	C35-HC	585	95	A	$18	36	9-1/8	6-13/16	8-13/16	38	WET	NO
Premium	2" X 5"	58	RW58-HC	C58-HC	550	80	A	$18	36	9-11/16	7-3/16	6-13/16	28	WET	NO
Premium	2" X 5"	58R	RW58R-HC	C58R-HC	460	85	A	$18	36	9-11/16	7-3/16	6-13/16	29	WET	NO
Premium	2" X 7.25"	65	RW65-HC	C65-HC	850	150	A	$18	36	11-7/8	7-1/2	7-5/8	45	WET	NO
Premium	2" X 7.25"	75	RW75-HC	C75-HC	690	95	A	$18	36	9-1/2	7	7-15/16	32	WET	NO
Premium	2" X 5"	78	RW78-HC	C78-HC	770	110	A	$18	36	10-7/8	7	7-5/16	38	WET	NO
Premium	2" X 7.25"	79	RW79-HC	C79-HC	840	140	A	$18	36	12-1/16	7-1/16	7-3/8	43	WET	NO
Premium	2" X 7.25"	86	RW86-HC	C86-HC	640	95	A	$18	36	9-1/16	6-13/16	8	31	WET	NO
Premium	2" X 5"	100	RW100-HC	C100-HC	770	115	A	$18	36	10-1/4	7-1/16	7-3/8	40	WET	NO
Premium	2" X 7.25"	101	RW101-HC	C101-HC	650	110	A	$18	36	10-1/4	7-1/16	6-11/16	36	WET	NO
Premium	2" X 5"	121R	RW121R-HC	C121R-HC	600	110	A	$18	36	8-14	7	8-1/2	31	WET	NO
Premium	2" X 5"	124R	RW124R-HC	C124R-HC	700	110	A	$18	36	10-3/8	7	8-5/8	39	WET	NO
Premium	2" X 5"	151R	RW151R-HC	C151R-HC	340	57	A	$18	36	7-7-16	4-15/16	8-7/8	23	WET	NO
Premium	2" X 7.25"	H5/47	RW47/H5-HC	C47/H5-HC	650	100	A	$18	36	9/5/8	6-7/8	7-12/25	33	WET	NO
Premium	2" X 7.25"	H6/48	RW48/H6-HC	C48/H6-HC	730	115	A	$18	36	10-7/8	6-7/8	7-1/2	39	WET	NO
Premium	2" X 5"	H7/94R	RW94R/H7-HC	C94R/H7-HC	790	130	A	$18	36	12-7/8	6-7/8	7-1/2	43	WET	NO
Premium	2" X 7.25"	H8/49	RW49/H8-HC	C49/H8-HC	900	160	A	$18	36	10-15/16	6-7/8	7/12/25	48	WET	NO
Premium	2" X 7.25"	H9/95R	RW95R/H9-HC	C95R/H9-HC	850	180	A	$18	36	15-9/16	6-15/16	7-1/2	64	WET	NO

UNITED STATES

BATTERY SYSTEMS

LABEL DESCRIPTION		BCI	NABS	CUMMINS	SAE RATINGS		CORE	CORE	WARRANTY				EST.		SEALED
		GROUP	PART	PART	CCA	RESERVE	CLASS	CHARGE	(MONTHS)				WEIGHT		
SIDE	TOP	SIZE	NUMBER	NUMBER		CAPACITY				LENGTH	WIDTH	HEIGHT	LBS	WET	MF
AUTOMOTIVE – 12 VOLT															
Standard	2" X 7.25"	26/70	RW70DT	C70DT	400	60	A	$18	24	8-13/16	7	8	26	WET	YES
Standard	2" X 7.25"	35/75	RW75DT	C75DT	525	85	A	$18	24	9/1/2	7	8	31	WET	YES
Standard	2" X 7.25"	34/78	RW78DT	C78DT	650	100	A	$18	24	10-7/8	7	8	37	WET	YES
Standard	2" X 5"	17HF	RW17HF	C17HF	360	115	A	$18	24	7-3/8	6-7/8	9	26	WET	NO
Standard	2" X 5"	19L	RW19L	C19L	355	90	A	$18	24	8-1/4	6-5/8	7-3/8	24	WET	NO
Standard	2" X 5"	22F	RW22F	C22F	390	60	A	$18	24	9-1/2	6-15/16	8-3/4	29	WET	NO
Standard	2" X 7.25"	24	RW24	C24	575	90	A	$18	24	10-1/2	6-6/4	8-3/4	37	WET	YES
Standard	2" X 7.25"	24F	RW24F	C24F	575	90	A	$18	24	10-1/2	6-6/4	8-3/4	38	WET	YES
Standard	2" X 7.25"	25	RW25	C25	525	85	A	$18	24	9-1/8	6-13/16	8-13/16	33	WET	YES
Standard	2" X 7.25"	26	RW26	C26	500	75	A	$18	24	8-13/16	6-3/4	6-13/16	27	WET	YES
Standard	2" X 7.25"	26R	RW26R	C26R	500	75	A	$18	24	8-13/16	6-3/4	6-13/16	27	WET	YES
Standard	2" X 7.25"	27	RW27	C27	700	120	A	$18	24	12-1/16	6-13/16	8-7/8	45	WET	YES
Standard	2" X 7.25"	27F	RW27F	C27F	700	120	A	$18	24	12-1/16	6-13/16	8-7/8	45	WET	YES
Standard	2" X 7.25"	34	RW34	C34	630	100	A	$18	24	10-5/16	6-13/16	7-13/16	36	WET	YES
Standard	2" X 5"	34R	RW34R	C34R	770	120	A	$18	24	10-5/16	6-13/16	7-13/16	40	WET	NO
Standard	2" X 7.25"	35	RW35	C35	450	85	A	$18	24	9-1/8	6-13/16	8-13/16	31	WET	NO
Standard	2" X 5"	36R	RW36R	C36R	650	95	A	$18	24	9-1/8	6-13/16	8-1/8	39	WET	NO
Standard	2" X 5"	40R	RW40R	C40R	590	100	A	$18	24	11	6-15/16	6-15/16	37	WET	NO
Standard	2" X 7.25"	41	RW41	C41	560	100	A	$18	24	11-9/16	6-15/16	6-15/16	33	WET	YES
Standard	2" X 7.25"	42	RW42	C42	410	70	A	$18	24	9-9/16	6-15/16	6-15/16	27	WET	YES
Standard	2" X 7.25"	45	RW45	C45	450	80	A	$18	24	8-7/8	5-1/2	8-7/8	30	WET	YES
Standard	2" X 7.25"	47/90	RW47	C47	550	85	A	$18	24	9-5/8	6-13/16	7-15/16	30	WET	YES
Standard	2" X 7.25"	48/91	RW48	C48	670	100	A	$18	24	10-7/8	6-7/8	7-1/2	35	WET	YES
Standard	2" X 7.25"	49/93	RW49	C49	800	140	A	$18	24	13-15/16	6-15/16	7-1/2	47	WET	YES
Standard	2" X 7.25"	51	RW51	C51	450	70	A	$18	24	9-3/8	5-1/8	8-13/16	26	WET	YES
Standard	2" X 7.25"	51R	RW51R	C51R	450	70	A	$18	24	9-3/8	5-1/8	8-13/16	26	WET	YES
Standard	2" X 7.25"	56	RW56	C56	580	90	A	$18	24	10	6-1/16	8-3-8	34	WET	NO
Standard	2" X 7.25"	58	RW58	C58	510	80	A	$18	24	9-11/16	7-3/16	6-13/16	29	WET	YES
Standard	2" X 7.25"	58R	RW58R	C58R	510	80	A	$18	24	9-11/16	7-3/16	6-13/16	29	WET	YES
Standard	2" X 7.25"	59	RW59	C59	590	100	A	$18	24	10-1/16	7-11/16	7-3/4	33	WET	YES
Standard	2" X 7.25"	65	RW65	C65	650	115	A	$18	24	11-7/8	7-1/2	7-5/8	38	WET	YES
Standard	2" X 7.25"	70	RW70	C70	500	80	A	$18	24	8-13/16	7	7-5/16	27	WET	YES
Standard	2" X 7.25"	75	RW75	C75	600	85	A	$18	24	9-1/2	7	7-15/16	31	WET	YES
Standard	2" X 7.25"	78	RW78	C78	630	100	A	$18	24	10-7/8	7	7-5/16	37	WET	YES
Standard	2" X 7.25"	85	RW85	C85	630	90	A	$18	24	9-1/16	6-13/16	8	32	WET	YES
Standard	2" X 7.25"	90/T5	RW90/T5	C90/T5	600	80	A	$18	24	9-19/36	6-8/9	6-8/9	32	WET	YES
Standard	2" X 7.25"	96R	RW96R	C96R	590	95	A	$18	24	9/12	6-15/16	6/15/16	32	WET	YES
Standard	2" X 7.25"	MIATA	MIATA	MIATA	320	45	A	$18	24	7-1/2	5	6-1/2	21	WET	NO

UNITED STATES

BATTERY SYSTEMS

LABEL DESCRIPTION		BCI	NABS	CUMMINS	SAE RATINGS		CORE	CORE	WARRANTY				EST.		SEALED
		GROUP	PART	PART	CCA	RESERVE	CLASS	CHARGE	(MONTHS)				WEIGHT		
SIDE	TOP	SIZE	NUMBER	NUMBER		CAPACITY				LENGTH	WIDTH	HEIGHT	LBS	WET	MF
COMMERCIAL SEVERE CONDITION SERIES															
Premium	2" X 7.25"	24	RW24LTV	C24LTV	800	150	A	$18	18	10-1/2	6-6/4	8-3/4	44	WET	NO
Premium	2" X 7.25"	24F	RW24FLTV	C24FLTV	800	150	A	$18	18	10-1/2	6-6/4	8-3/4	44	WET	NO
Premium	2" X 7.25"	27	RW27LTV	C27LTV	800	140	A	$18	18	12-1/16	6-13/16	8-7/8	51	WET	NO
Premium	2" X 7.25"	27F	RW27FLTV	C27FLTV	800	140	A	$18	18	12-1/16	6-13/16	8-7/8	51	WET	NO
Premium	2" X 5"	78	RW78LTV	C78LTV	800	135	A	$18	18	10-7/8	7	-8	39	WET	NO
Premium	2" X 5"	78/34	RW78DTLTV	C78DTLTV	800	135	A	$18	18	10-7/8	7	8	39	WET	NO
COMMERCIAL HIGH CYCLE SERIES															
Premium	2.25" x 11.25"	31	RWHCL31A	CHCL31A	700	190	B	$24	18	13	6-13/16	9-7/16	61	WET	YES
Premium	2.25" x 11.25"	31	RWHCL31S	CHCL31S	700	190	B	$24	18	13	6-13/16	9-7/16	61	WET	YES
COMMERCIAL SEVERE CONDITION SERIES															
Premium	PRE-PRINTED	31	RW31AXHD	C31AXHD	950	195	B	$24	18	13	6-13/16	9-7/16	60	WET	YES
Premium	PRE-PRINTED	31	RW31SXHD	C31SXHD	950	195	B	$24	18	13	6-13/16	9-7/16	60	WET	YES
Premium	2.25" x 11.25"	31	RW31AHD	C31AHD	750	180	B	$24	18	13	6-13/16	9-7/16	57	WET	YES
Premium	2.25" x 11.25"	31	RW31SHD	C31SHD	750	180	B	$24	18	13	6-13/16	9-7/16	57	WET	YES
Premium	2.25" x 11.25"	31	RW31SVC	C31SVC	925	200	B	$24	18	13	6-13/16	9-7/16	59	WET	NO
Premium	2.25" x 11.25"	31	RW31AVC	C31AVC	925	200	B	$24	18	13	6-13/16	9-7/16	59	WET	NO
Premium	2" X 7.25"	4D	RWMF4D	CMF4D	900	290	D	$36	18	20-3/4	8-3/4	9-7/8	120	WET	YES
Standard	2" X 7.25"	8D	RWMF8D	CMF8D	1155	380	E	$42	18	20-3/4	11-1/8	9-7/8	118	WET	YES
Premium	2" X 7.25"	8D	RWMF8DXH	CMF8DXH	1300	440	E	$42	18	20-3/4	11-1/8	9-7/8	134	WET	YES
COMMERCIAL 12 VOLT															
Premium	2" X 5"	22NF	RW22NF	C22NF	390	70	A	$18	18	9-7/16	5-1/2	8-15/16	28	WET	NO
Premium	2" X 5"	29NF	RW29NF	C29NF	420	77	A	$18	18	13	5-1/2	8/15/16	38	WET	NO
Premium	2" X 5"	3EE	RW3EE	C3EE	425	100	B	$24	18	19-15/16	4-3/8	8-7/8	39	WET	NO
Premium	2" X 5"	3ET	RW3ET	C3ET	460	120	B	$24	18	19-15/16	4-3/8	9-13/16	48	WET	NO
Premium	2" X 5"	30H	RW30H	C30H	660	160	B	$24	18	13-1/2	6/13/16	9-1/4	53	WET	NO
Standard	2.25" x 11.25"	31	RW31A-10	C31A-10	1000	200	B	$24	18	13	6-13/16	9-7/16	57	WET	YES
Standard	2.25" x 11.25"	31	RW31S-10	C31S-10	1000	200	B	$24	18	13	6-13/16	9-7/16	56	WET	YES
Standard	2.25" x 11.25"	31	RW31A-9	C31A-9	925	175	B	$24	18	13	6-13/16	9-7/16	55	WET	YES
Standard	2.25" x 11.25"	31	RW31S-9	C31S-9	925	175	B	$24	18	13	6-13/16	9-7/16	54	WET	YES
Standard	2.25" x 11.25"	31	RW31A-7	C31A-7	750	165	B	$24	18	13	6-13/16	9-7/16	49	WET	YES
Standard	2.25" x 11.25"	31	RW31S-7	C31S-7	750	165	B	$24	18	13	6-13/16	9-7/16	49	WET	YES
Premium	PRE-PRINTED	4D	RW4D	C4D	1000	290	D	$36	18	20-3/4	8-3/4	9-7/8	97	WET	NO
Premium	2" X 5"	4DLT	RW4DLT	C4DLT	820	185	D	$36	18	12	8-13/16	7-15/16	86	WET	NO
Premium	2" X 5"	50	RW50	C50	600	108	A	$18	18	13-1/2	5	10	44	WET	NO
Standard	2" X 7.25"	8D	RW8D	C8D	1155	380	E	$42	18	20-3/4	11-1/8	9-7/8	124	WET	NO
Premium	PRE-PRINTED	8D	RW8DXH	C8DXH	1400	450	E	$42	18	20-3/4	11-1/8	9-7/8	132	WET	NO
Standard	2" X 5"	U1	RWU1L	CU1L	250	32	U	$10	18	7-3/4	5-3/16	7-15/16	16	WET	NO
Standard	2" X 5"	U1	RWU1R	CU1R	250	32	U	$10	18	7-3/4	5-3/16	7-15/16	16	WET	NO
Premium	2" X 5"	U1	RWU1L-HC	CU1L-HC	300	40	U	$10	18	7-3/4	5-3/16	7-15/16	17	WET	NO
Premium	2" X 5"	U1	RWU1R-HC	CU1R-HC	300	40	U	$10	18	7-3/4	5-3/16	7-15/16	17	WET	NO
COMMERCIAL 6 VOLT															
Premium	2" X 5"	1	RW1	C1	540	135	A	$18	18	9-1/8	7-1/8	9-3/8	32	WET	NO
Premium	2" X 5"	2	RW2	C2	625	160	A	$18	18	10-3/8	7-1/8	8-3/4	36	WET	NO
Premium	2" X 5"	3EH	RW3EH	C3EH	800	280	B	$24	18	19-15/16	4-3/8	9-13/16	51	WET	NO
Premium	2" X 5"	4	RW4	C4	1000	250	B	$24	18	13-1/8	7-1/8	9-3/8	50	WET	NO

UNITED STATES

BATTERY SYSTEMS

LABEL DESCRIPTION		BCI	NABS	CUMMINS	SAE RATINGS		CORE CLASS	CORE CHARGE	WARRANTY (MONTHS)				EST. WEIGHT		SEALED
		GROUP	PART	PART	CCA	RESERVE									
SIDE	TOP	SIZE	NUMBER	NUMBER		CAPACITY				LENGTH	WIDTH	HEIGHT	LBS	WET	MF
COMMERCIAL 12 VOLT AGM															
Premium	2.25" x 11.25"	31	RWAGM31AHD	CAGM31AHD	925	190	B	$24	18	13	6-13/16	9-7/16	60	AGM	YES
Premium	2.25" x 11.25"	31	RWAGM31SHD	CAGM31SHD	925	190	B	$24	18	13	6-13/16	9-7/16	60	AGM	YES
Standard	2.25" x 11.25"	31	RWAGM31A	CAGM31A	800	180	B	$24	18	13	6-13/16	9-7/16	56	AGM	YES
Standard	2.25" x 11.25"	31	RWAGM31S	CAGM31S	800	180	B	$24	18	13	6-13/16	9-7/16	56	AGM	YES
Premium	2" X 7.25"	31	RWAGM8DA	CAGM8DA	1450	480	E	$42	18	20-3/4	11-1/8	9-7/8	170	AGM	YES
MARINE STARTING															
Premium	2" X 7.25"	24	RWSM24	CSM24	800	150	A	$18	18	10-1/2	6-6/4	8-3/4	45	WET	NO
Premium	2" X 7.25"	27	RWSM27	CSM27	800	175	A	$18	18	12-1/16	6-13/16	8-7/8	54	WET	NO
MARINE DEEP CYCLE															
Premium	2" X 7.25"	24	RWDC24	CDC24	550	140	A	$18	18	10-1/2	6-6/4	8-3/4	45	WET	NO
Premium	2" X 7.25"	27	RWDC27	CDC27	600	155	A	$18	18	12-1/16	6-13/16	8-7/8	50	WET	NO
Premium	2" X 7.25"	29	RWDC29	CDC29	675	210	B	$24	18	13	6-13/16	9-7/16	59	WET	NO
Premium	2" X 7.25"	31	RWDC31	CDC31	800	180	B	$24	18	13	6-13/16	9-7/16	51	WET	NO
Premium	2" X 7.25"	4D	RWDC4D	CDC4D	1000	300	D	$36	18	20-3/4	8-3/4	9-7/8	117	WET	NO
Premium	2" X 7.25"	8D	RWDC8D	CDC8D	1340	390	E	$42	18	20-3/4	11-1/8	9-7/8	125	WET	NO
6 VOLT MOTIVE POWER															
Premium	2" X 5"	1	RWDC1	CDC1	95 AH	165	A	$18	18	9-1/8	7-1/8	8-3/4	32	WET	NO
Premium	2" X 5"	GC2H	RW145	C145	245 AH	530	C	$30	18	10-1/4	7-1/8	11-7/8	70	WET	NO
Premium	2" X 5"	901	RW250	C250	250 AH	540	D	$36	18	11-3/4	7-1/8	11-7/8	67	WET	NO
Premium	2" X 5"	902	RW305	C305	305 AH	675	D	$36	18	12	7-1/8	14/5-8	83	WET	NO
Premium	2" X 5"	903	RWL16	CL16	350 AH	805	D	$36	18	11-7/8	7-1/8	16-3/4	99	WET	NO
12 VOLT MOTIVE POWER															
Premium	2" X 5"	U1	RWDCU1L	CDCU1L	33 AH	40	U	$10	18	7-3/4	5-3/16	7-15/16	18	WET	NO
Premium	2" X 5"	22NF	RWDC22NF	CDC22NF	50 AH	75	A	$18	18	9-7/16	5-1/2	8-15/16	32	WET	NO
Premium	2" X 5"	185	RWDC185	CDC185	185 AH	375	D	$36	18	15-5/8	7-1/16	14-7/8	109	WET	NO
Premium	2" X 5"	6TN	RWDC6TN	CDC6TN	110 AH	215	C	$30	18	10-1/2	11-7/8	9-1/6	71	WET	NO
6 VOLT GOLF															
Standard	2" X 5"	GC2	RWGC2000P	CGC2000P	200 AH	395	C	$30	18	10-1/4	7-1/8	11-1/4	60	WET	NO
Premium	2" X 5"	GC2	RWGC2200P	CGC2200P	220 AH	445	C	$30	18	10-1/4	7-1/8	11-1/4	62	WET	NO
8 VOLT GOLF															
Premium	2" X 5"	GC8	RWGC8VP	CGC8VP	165 AH	299	C	$30	18	10-1/4	7-1/8	11-1/4	62	WET	NO
12 VOLT GOLF															
Premium	2" X 5"	GC12	RWGC1275P	CGC1275P	150 AH	290	C	$30	18	14	7-1/16	11-3/8	81	WET	NO

CANADA

AUTOMOTIVE / LIGHT EQUIPMENT

Part #	CCA @-17.8.C	CA @0.C	R/C @25A	Warranty Months	Voltage					
64020	800	1000	260	12	12	⚡			▪	▪
22F-625	500	625	90	24	12	⚡			▪	▪
24C-925	750	925	155	24	12	⚡⚡			▪	▪
24C-750	600	750	115	24	12	⚡			▪	
24C-525	450	550	80	24	12	⚡			▪	
24DC-130	700	850	120	18	12	⚡⚡⚡	▪		▪	
24-F-925	750	925	155	24	12	⚡⚡			▪	▪
24F-750	600	750	115	24	12	⚡			▪	
24F-525	450	550	80	24	12	⚡			▪	
25-625	550	675	100	24	12	⚡			▪	▪
26-700	550	675	100	24	12	⚡⚡			▪	▪
26R-700	550	675	100	24	12	⚡⚡			▪	▪
26-700VC	540	675	85	24	12	⚡				
27DC-180	750	925	175	18	12	⚡⚡⚡	▪			
27C-900	750	925	155	24	12	⚡			▪	▪
27F-900	750	925	155	24	12	⚡			▪	▪
30H-850	830	1025	182	18	12	⚡			▪	▪
34-850	670	825	130	24	12	⚡⚡			▪	▪
34-750	550	675	100	24	12	⚡			▪	
35-625	550	675	100	24	12	⚡			▪	▪
47-750	600	750	110	24	12	⚡			▪	▪
48-950AGM	760	950	150	24	12	⚡⚡⚡		▪	▪	▪
48-850	760	950	150	24	12	⚡			▪	▪
49-1050AGM	850	1050	180	24	12	⚡⚡⚡		▪	▪	▪
49-1050	850	1050	180	24	12	⚡			▪	▪
65-1000AGM	775	965	150	24	12	⚡⚡⚡		▪	▪	▪
65-1100	850	1100	150	24	12	⚡⚡			▪	▪
65-875	650	800	130	24	12	⚡			▪	
78-950	750	925	155	24	12	⚡⚡			▪	▪
78-800	600	750	110	24	12	⚡			▪	
78DT-1000	800	1000	155	24	12	⚡⚡			▪	▪
78DT-625	550	675	100	24	12	⚡			▪	
78DT-925	710	875	140	24	12	⚡			▪	▪
94R-1000AGM	800	1000	160	24	12	⚡⚡⚡			▪	▪
94R-1025	700	875	140	24	12	⚡			▪	
N-120	800	1000	180	12	12	⚡⚡			▪	▪
N-100	700	875	180	12	12	⚡			▪	
U1-425	300	375	40	18	12	⚡⚡			▪	
U1R-425	300	375	40	18	12	⚡⚡			▪	
U1-280	210	260	30	18	12	⚡			▪	
U1R-280	210	260	30	18	12	⚡			▪	

CANADA

COMMERCIAL TRUCK / RV / POWERGEN / SCHOOL BUS AND TRANSIT BUS

Part #	CCA @-17.8.C	CA @0.C	R/C @25A	Warranty Months	Voltage	⚡	♻	▦	💧	❄
31-1000AGM	800	1000	180	18	12	⚡⚡⚡	▪	▪	▪	▪
31A-1000AGM	800	1000	180	18	12	⚡⚡⚡	▪	▪	▪	▪
31-AGM (overdrive)	730	875	180	24	12	⚡⚡⚡	▪	▪	▪	▪
31-1125A	925	1125	190	24	12	⚡⚡	▪		▪	▪
31-1125AVC	925	1125	180	24	12	⚡⚡	▪			▪
31-1125S	925	1125	190	24	12	⚡⚡	▪		▪	▪
31-1125SVC	925	1125	180	24	12	⚡⚡	▪			▪
31-1175AVC	925	1175	190	24	12	⚡⚡	▪			▪
31-1175SVC	925	1175	190	24	12	⚡⚡	▪			▪
31-1250A	1000	1250	200	24	12	⚡⚡	▪		▪	▪
31-1250S	1000	1250	200	24	12	⚡⚡	▪		▪	▪
31-1250AVC	1000	1250	200	24	12	⚡	▪			▪
31-1250SVC	1000	1250	200	24	12	⚡	▪			▪
31-875SVC	725	900	150	18	12	⚡	▪			
31-875DC	700	875	180	18	12	⚡			▪	
31-875S	700	875	150	18	12	⚡			▪	
31-PC2150	1150	1370	205	36	12	⚡⚡⚡	▪	▪	▪	▪
4-1350	1000	1250	290	6	12	⚡			▪	▪
4D-1250M	1000	1250	300	18	12	⚡⚡			▪	▪
4D-1250	1000	1250	300	18	12	⚡				▪
4DLT-1125	900	1125	200	6	12	⚡				
8D-AGM	1450	1850	460	24	12	⚡⚡⚡	▪	▪	▪	▪
8D-1600M	1350	1650	530	18	12	⚡⚡	▪		▪	▪
8D-1750	1400	1750	530	18	12	⚡⚡	▪			▪
8D-1250	1100	1320	370	18	12	⚡				
8D-1600	1300	1625	450	18	12	⚡	▪			▪
OPT-31A	900	1125	155	24	12	⚡⚡⚡	▪	▪	▪	▪
OPT-31TYELLOW	900	1125	155	24	12	⚡⚡⚡	▪	▪	▪	▪

CANADA

DEEP CYCLE BATTERIES FOR EVERY APPLICATION

Part #	AH @20HR	R/C @25A	Warranty Months	Voltage	⚡	▦	💧
T105-AGM	217	440	24	6	⚡⚡	▪	▪
T-125+	240	488	18	6	⚡⚡		
T-105+	225	447	18	6	⚡		
T-145+	260	530	18	6	⚡⚡		
GC-225	220	440	18	6	⚡		

LEGEND

Scale:

- ⚡ Good
- ⚡⚡ Better
- ⚡⚡⚡ Best
- ♻ Starting and cycling hybrid
- ▦ Absorbent glass mat
- 💧 Maintenance free
- ❄ Extreme cold: Improved cold weather performance

Valvoline

PRODUCT

Oil, grease, transmission fluid and coolant supplier.

TARGET CUSTOMERS

Dealer network, truck fleets, ISX15 and X15 engine owners looking to extend their oil drain intervals.

VALUE PROPOSITION

- There is NO other co-branded product in the market today.
- Premium Blue is the "Genuine" fluid for Cummins engines.
- Only lubricant endorsed and recommended by Cummins.
- Valvoline is the factory fill lubricant for Cummins engine
- Extended drain approved for on-highway markets

VALVOLINE

X15 MAINTENANCE INTERVAL SUMMARY

Item	Severe < 5.0 mpg	Shorthaul 5.0-5.9 mpg	Normal 6.0-6.9 mpg	Light >7.0 mpg
Oil Drain	25,000	40,000	50,000	60,000
Oil Drain with Valvoline PB	30,000	45,000	55,000	70,000
Oil Drain with OilGuard™	--	--	--	Up to 80,000
Fuel Filter **	25,000	40,000	50,000	60,000

If combined percent idle time plus power takeoff (PTO) time is greater than 40 percent for Shorthaul, Normal or Light intervals, use the next lower drain interval.

** For Premium Blue users, the Fuel Filter interval matches the ODI

Item	Severe < 5.5 mpg	Normal 5.5-6.5 mpg	Light >6.5 mpg
Ash Clean	250,000-400,000	400,000-600,000	600,000-800,000
DEF	250,000	280,000	300,000
Valvetrain	500,000	500,000	500,000
Drive Belts	500,000	500,000	500,000
Breather	NA	NA	NA
HC Doser	NA	NA	NA

Updated Maintenance Interval 2019

VALVOLINE

HEAVY-DUTY DIESEL OIL COMPARISON CHART

Valvoline HEAVY DUTY	Shell	Chevron	Mobil	Castrol	PHILLIPS 66	CITGO LUBRICANTS
PREMIUM BLUE EXTREME SAE 5W-40 Cummins	Rotella T-6	Delo 400 XSP	Delvac 1 ESP		Triton ECT	Syndurance +
PREMIUM BLUE ONE SOLUTION GEN2 SAE 15W-40 SAE 10W-30 Cummins	Rotella T-5	Delo 400 XLE	Delvac Extreme	Vecton	Guardol ECT	700
ALL FLEET E900+ SAE 15W-40 SAE 10W-30	Rotella T-4	Delo 400 SDE	Delvac 1300	CRB Multi	Fleet Supreme EC	600
SAE 15W-40 SAE 10W-30		Ursa	Mobil HDEO			500

Webasto

PRODUCT

Engine-off diesel and gas heating solutions for HD trucks, construction equipment, school buses, work vehicles, RVs and marine applications.

TARGET CUSTOMERS

Dealer network, truck fleets, construction companies, school divisions.

QUALIFYING QUESTIONS

- Do you preheat your engines?
- Do you use Webasto products?
- What percentage do your engines idle?
- Are you familiar with “Fuel-Operated Heaters”?

CROSS REFERENCE

Webasto	Espar
AirTop 2000	D2
AirTop Evo 40	D4
AirTop Evo 55	D5
Theromo Top C / Thermo Top Evo	Hydronic 5
Thermo Pro 90	Hydronic 10
Thermo Pro 50	Hydronic 5

Fleetguard

PRODUCT

Fleetguard is a world leader in OEM and aftermarket filtration solutions for diesel engines, transmissions and industrial applications, including engines ranging from 3 to above 100 liters in displacement.

PRODUCT OVERVIEW

Air filtration, coolants & chemicals, crankcase ventilation, fuel filtration, lube filtration, hydraulic filtration, transmission filtration.

When you buy a Cummins Filtration product, you are assured superior warranty protection from the point of purchase throughout the recommended life of the product. Unlike industry competitors, our warranty coverage is not-pro rated, which is the best level of coverage in the industry.

TARGET CUSTOMERS

With over 8,300 filtration products providing a full range of air, lube, fuel and hydraulic filters for both Cummins and competitive engines every fleet / OE is a target customer.

QUALIFYING QUESTIONS

- What is your current service and desired service interval?
- Do you have issues with short filter life?
- Is fuel cleanliness an issue?
- Are you seeing fuel system failures on any of your equipment?

CONSULTATION QUESTIONS

- What application and how many units do you have?

OFFERING THE RIGHT FLEETGUARD COOLANT

Fleetguard offers a choice of coolant (antifreeze) products to meet every need for every type of engine. The chart below can help you find the right product for your customer.

Classification	Technology	Life*	Maintenance requirements	Product highlights	Performance standards
OAT	Best	1,000,000 Miles 20,000 Hours	Low	Life-of-the-engine, million-mile coolant without the use of Extenders or SCAs. Compatible with all modern and legacy engines, including those with aluminum components. Advanced, industry-leading technology. The ONLY coolant approved and recommended for use in ALL Cummins engines and applications.	Exceeds ASTM D3306 and ASTM D6210. Cummins preferred coolant.

Classification	Technology	Life*	Maintenance requirements	Product highlights	Performance standards
NOAT	Better	1,000,000 Miles 20,000 Hours	Medium	Life-of-the-engine coolant. Robust, extended-life coolant. Ideal for extended-life (ELC) and EC-1 systems requiring nitrite.	Exceeds ASTM D3306 and ASTM D6210. Recommended by Cummins.

Classification	Technology	Life*	Maintenance requirements	Product highlights	Performance standards
Hybrid	Better	1,000,000 Miles 20,000 Hours	Medium	Life of the engine coolant. Premium product with an extended service interval. Ideal for Cummins HD systems.	Exceeds ASTM D3306 and ASTM D6210. The original extended service coolant recommended by Cummins.

Classification	Technology	Life*	Maintenance requirements	Product highlights	Performance standards
Hybrid	Better	1,000,000 Miles 20,000 Hours	Medium	Phosphate-free formulation. Ideal for Cummins and Detroit HD systems.	Exceeds ASTM D3306 and ASTM D6210. Recommended by Cummins.

Classification	Technology	Life*	Maintenance requirements	Product highlights	Performance standards
Conventional	Good	300k-400k Miles 6,000-8,000 Hours	High	The original fully-formulated, heavy-duty coolant. Does not require a pre-charge of SCA.	Exceeds ASTM D3306 and ASTM D6210 without the need for a pre-charge.

FILL-IN PROGRAM

Cummins OEM Dealer Fleetguard Fill-in Program allows you to buy Fleetguard Filters and Coolants (excluding OED parts) at 40% off MRP. This program is designed to help OEM's source Fleetguard Filters and Coolants from your nearest Cummins Sales and Service location to help with:

- Less than case quantity purchases
- Back-orders through OEM PDC
- Emergency filter needs

AMPS PROGRAM

Program designed to make Fleetguard filters more affordable to fleets, repair facilities, municipalities and end-users by providing them with a discount on their filters related to their yearly demand. Minimum sales of $2500 worth of Fleetguard products per year to qualify.

TRIPOD PROGRAM

Exclusive CSSNA Program designed to target the highly competitive Transit, School Bus and Government/Municipal business. 63% off MRP.

SSAD – SUPER SECONDARY AFTERMARKET DISTRIBUTOR

Program designed for Independent Dealers and Repair Facilities that allows them to access the AMPS Rebate Program. Fleetguard invoices CSSNA at a reduced rate that provides an upfront margin of 7%.

SAD – SECONDARY AFTERMARKET DISTRIBUTOR

Program designed for Independent Dealers and Repair Facilities that provides an upfront discount through the AMPS program using 48-55% off MRP.

POWER GENERATION CONTRACT BUSINESS PROGRAM

52% discount on Fleetguard filters when customer signs a preventative maintenance contract.

Power service

PRODUCT

Line of industry-leading diesel fuel additives provides year-round engine performance improvement, trouble-free winter operability and proper fuel tank hygiene. The injector cleaners are endorsed by Cummins.

TARGET CUSTOMERS

Current dealer network, oil distributors, industries: trucking, agriculture, construction, marine, mining, standby generation, automotive, small motor and home heating oil.

QUALIFYING QUESTIONS

- Has anyone talked to you about the issues caused by ULSD (Ultra-Low Sulfur Diesel) and the effects on today's diesel engines?
- What fuel additive are you currently using to protect your pumps and injectors from poor quality ULSD Fuel?
- Do you have a tank maintenance program in place?
- What are you currently doing to control water and microbial contamination in your fuel storage tanks?
- Does your fleet experience a lot of idle time?
- What products are you using currently to winterize your diesel fuel and prevent fuel gelling?
- Do you temperature treat for cold weather operability?

POWER SERVICE YEAR-ROUND MAINTENANCE SCHEDULE

To ensure peak performance of your diesel,
Power Service recommends this maintenance schedule:

ABOVE 30°F.
Silver for summer

Every time you fill up

DIESEL KLEEN® +CETANE BOOST®

If temperatures are above 30°F., add Diesel Kleen +Cetane Boost (silver bottle) to clean injectors, boost power, lubricate pumps and injectors and restore lost power and fuel economy.

Endorsed by Cummins Inc.

PART#	PACK	TREATS
CUSTOMER CONVENIENCE + CETANE BOOST FORMULA - 1:400 TREATMENT RATIO		
3016-09	9/1 16-Ounce	Up to 40 Gallons
3025-12	12/1 32-Ounce	Up to 100 Gallons
3080-06	6/1 80-Ounce	Up to 250 Gallons
CONCENTRATED + CETANE BOOST FORMULA - 1:1,000 TREATMENT RATIO		
3128-04	4/1 One-Gallon	Up to 1,000 Gallons
CONCENTRATED + CETANE BOOST FORMULA - 1:1,500 TREATMENT RATIO		
3850-02	Two/2.5-Gallon	Up to 3,750 Gallons
3855	55-Gallon Drum	Up to 82,500 Gallons
3860	260-Gallon Tote	Up to 390,000 Gallons

BELOW 30°F.
White for winter

DIESEL FUEL SUPPLEMENT® +CETANE BOOST®

If temperatures are below 30°F., add Diesel Fuel Supplement +Cetane Boost (white bottle) for winter operability to prevent fuel gelling and protect against fuel-filter icing.

Endorsed by Cummins Inc.

PART#	PACK	TREATS
CUSTOMER CONVENIENCE + CETANE BOOST FORMULA - 1:400 TREATMENT RATIO		
1016-09	9/1 16-Ounce	Up to 40 Gallons
1025-12	12/1 32-Ounce	Up to 100 Gallons
1080-06	6/1 80-Ounce	Up to 250 Gallons
CONCENTRATED + CETANE BOOST FORMULA - 1:1,000 TREATMENT RATIO		
1128-04	4/1 One-Gallon	Up to 1,000 Gallons
1060	260-Gallon Tote	Up to 260,000 Gallons
CONCENTRATED + CETANE BOOST FORMULA - 1:1,500 TREATMENT RATIO		
1050-02	Two/2.5-Gallon	Up to 3,750 Gallons
1055	55-Gallon Drum	Up to 82,500 Gallons
1260	260-Gallon Tote	Up to 390,000 Gallons
3860	260-Gallon Tote	Up to 390,000 Gallons

In a winter emergency

DIESEL 9-1-1®

Use Diesel 911 to reliquefy gelled fuel and de-ice frozen fuel-filters if your vehicle will not start or gain power in cold weather.

8016-09	9/1 16-Ounce	Up to 40 Gallons
8025-12	12/1 32-Ounce	Up to 100 Gallons
8080-06	6/1 80-Ounce	Up to 250 Gallons
8050-02	Two/2.5-Gallon	Up to 500 Gallons
8055	55-Gallon Drum	Up to 11,000 Gallons

At least quarterly or as needed

CLEAR-DIESEL® FUEL & TANK CLEANER

Treat with Clear-Diesel Fuel & Tank Cleaner to remove water, disperse contaminants and ensure fuel is stabilized for long-term storage.

PART#	PACK	TREATS
CUSTOMER CONVENIENCE + CETANE BOOST FORMULA - 1:400 TREATMENT RATIO		
3016-09	9/1 16-Ounce	Up to 40 Gallons
3025-12	12/1 32-Ounce	Up to 100 Gallons
3080-06	6/1 80-Ounce	Up to 250 Gallons
CONCENTRATED + CETANE BOOST FORMULA - 1:1,000 TREATMENT RATIO		
3128-04	4/1 One-Gallon	Up to 1,000 Gallons
CONCENTRATED + CETANE BOOST FORMULA - 1:1,500 TREATMENT RATIO		
3850-02	Two/2.5-Gallon	Up to 3,750 Gallons
3855	55-Gallon Drum	Up to 82,500 Gallons
3860	260-Gallon Tote	Up to 390,000 Gallons

BIO KLEEN DIESEL FUEL BIOCIDE

A diesel fuel biocide.

This dual-phased (effective in both diesel fuel and water) biocide kills microbes in fuel, including bacteria and fungus. Use this product to rid your fuel system of microbial contamination.

PART#	PACK	SHOCK TREATMENT	MAINTENANCE
9016-09	9/1 16-Ounce	320 Gallons	880 Gallons
9128-04	4/1 One-Gallon	2,500 Gallons	7,000 Gallons
9055	55-Gallon Drum	137,500 Gallons	385,000 Gallons

DAVCO

PRODUCT

DAVCO is the North American leader in Class 8 heavy duty diesel powered truck fuel-heater/water separators and filter systems. DAVCO products are designed for tough commercial applications including On and Off-Highway, Industrial, Gen Set, Construction, Military and Marine.

TARGET CUSTOMERS

All diesel powered off highway segments where stage 1 (primary) filtration is required. This is configured in front of the filters on the engine.

QUALIFYING QUESTIONS

- What is your current service and desired service interval?
- Do you run stage 1 fuel filtration today?
- Do you have issues with short filter life (on the stage 1 and stage 2 filters)?
- Is fuel cleanliness an issue? Can you control your fuel supply?
- Are you seeing fuel system failures on any of your equipment?
- Do you have cold weather requirements?

CONSULTATION QUESTIONS

- What application and how many units do you have?
- What is the engine displacement?
- Is a priming pump required (do they require priming pump currently)?
- Is a heater required?
- Is plexing required (continuous running)?

APPLICATION QUICK REFERENCE SUMMARY

	Industrial Pro FH239 Series					Sea Pro FH240 Series				Fuel Pro		Diesel Pro		
	Single Short	Single Tall	Dual/Duplex Short	Dual/Duplex Tall	Triple	Single Short	Single Tall	Duplex Short	Duplex Tall	FH230 Series	FH231 Series	FH235 Series	FH236 Series	FH241 Series
Flow rate (GPH)	300	600	600	1200	1200	360	720	540	1080	180	180	60	90	55
Engine size (Litre)	19-23	23-38	38-60	50-60	60-78	19-38	19-50	19-38	50-60	13-15	15-19	4-17	8-13	8-13
Cummins Engine Displacement (Litre)	4.5	6.7	8.3	9	12	15	19	23	30	38	45	50	60	78
Max flow rate (GPH)	Up to 60	Up to 60	Up to 60	Up to 60	Up to 110	Up to 110	Up to 150	Up to 250	Up to 240	Up to 200	Up to 330	Up to 330	Up to 330	Up to 1000

Cummins links and resources

QUICKSERVE ONLINE (QSOL)

quickserve.cummins.com

- VIN to ESN Lookup
- Parts Training
- ReCon Engine Lookup
- Promotion Information
- Campaigns and TSBs

WWSPS

wwsps.cummins.com

- Dealer Profile Database
- Dealer Contact Information

RAPIDSERVE WEB

rsw.cummins.com

- Extended warranty lookup

GENUINE PARTS CATALOG

parts.cummins.com

- ESN Parts lookup
- Filtration cross-reference search
- Bulletin search
- Purchase publications

CUMMINS CARE

1-800-CUMMINS

- 24/7/365 Support

CUMMINS ENGINE OVERHAULS

cummins.com/cummins-engine-overhauls

SHOP CUMMINS

shop.cummins.com

- Online Parts Store

CUMMINS MERCHANDISE (FULL LINE)

cummins.mybrightsites.com/

- Customer Giveaway Ordering (speak to your manager to obtain your username and password)

POWERSPEC INFO AND SOFTWARE DOWNLOAD

cummins.com/parts-and-service/digital-products-and-services/powerspec

PRODUCT REGISTRATION

cummins.com/support/product-registration

BROCHURE LIBRARY

mart.cummins.com

CUMMINS SERVICE & PARTS LOCATOR

locator.cummins.com/GlobalLocator/homeScreen.action?request_locale=en_US

- Warranty Authorized locations

CUMMINS SALES & SERVICE LOCATOR

salesandservice.cummins.com/locations

OEM DEALER SALES SITE

OEM.cummins.com (ex. peterbilt.cummins.com)

Allied parts links and resources

FLEETGUARD RESOURCES

WEBSITE

fleetguard.com

- Part, Application and Cross Reference Search
- View products
- View and order literature

POWER SERVICE RESOURCES

WEBSITE

powerservice.com

- View products
- PDFs of sales literature

VALVOLINE RESOURCES

WEBSITE

valvoline.com

- View products
- View and order literature

HELP LINE

- 1-800-TEAM-VAL Support

WEBASTO RESOURCES

TECHWEBASTO

techwebasto.com

- Technical Training
- Service Parts
- Operation Guides
- Warranty Information

WEBASTO LITERATURE

webastoliterature.com

- Literature ordering
- Technical Helpline 1-800-860-7866

Literature and bulletins

www.fleetguard.com

Literature number (LT)	Description
LT36164NA	Diesel Pro (FH235/236)
LT36554	Diesel Pro (FH241)
LT36147	Diesel Pro Service Bulletin
LT32559	Fuel Pro FH230
LT36578	Fuel Pro FH231
LT332582	Fuel Pro Service Bulletin
LT36412	Sea Pro FH240 Series
LT36370	Sea Pro Service Bulletin
LT36333	Industrial Pro Service Bulletin
LT36340	Industrial Pro FH239 Series
LT36638	Midlife Injector Brochure
LT36579	Complete Portfolio of DAVCO Products

QUICKSERVE ONLINE

Service Bulletin #	Description
4388840	Extended Service Interval Program for Mining Applications
5411272	Extended Service Interval Program for PowerGen Applications
5579560	Extended Service Interval Program for Marine Applications

Cummins Inc.
Box 3005
Columbus, IN 47202-3005
U.S.A.

cummins.com

Bulletin 5676428 Produced in U.S.A. Rev. 1/25
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