

Fleetguard[®]



Centriguard[™] with SpiraTec[™]

Advanced Centrifuge System for Maximum Soot Removal

CENTRIFUGE



REAL™ Advantages.

Fleetguard centrifuge filtration increases performance, decreases maintenance, and is environmentally friendly.

With the increasingly rigorous specifications of today's low-emissions engines, soot removal from engine oil has become more important than ever before. Centriguard filtration systems with patented SpiraTec™ technology meet the challenge, while providing:

- Increased Engine Life & Performance
- Easier Maintenance
- Minimal Environmental Impact

Increased Engine Life & Performance

Lube oil contaminants smaller than 5 microns are the most damaging to the engine, leading to bearing failure, cylinder liner polishing, valve bridge/rocker arm wear and full-flow filter plugging. SpiraTec is designed to efficiently remove and hold sub-5 micron contaminants, resulting in:

- Up to 50% reduced oil soot levels
- Reduced wear rates for lower oil consumption
- Extended full flow oil filter service intervals (depending upon severity of duty cycle)
- Improved oil viscosity control
- Improved fuel economy



Used



New

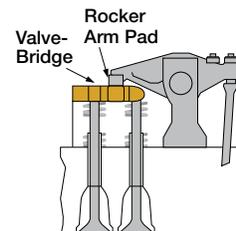
Cutaway comparison of clean rotor to field return rotor

Cylinder Liner Wear



Managing combustion by-products and reducing oil contaminants at the ring/liner interface results in longer engine productivity.

Valvetrain Wear



Reduced oil soot levels, as a result of Centriguard centrifuge use, yields lower valve bridge wear.

Easier Maintenance

The quicker and easier your maintenance is, the more you will save in labor time and costs. The Centriguard filtration system is the quickest and easiest centrifugal system to maintain on the market today with:

- Quick & Easy pop-in/pop-out rotor service
- No use of messy cleaning solvents
- Industry-common centrifuge mounting configuration

Minimal Environmental Impact



The Centriguard rotor is completely disposable and incinerable, meaning less waste and environmental impact.

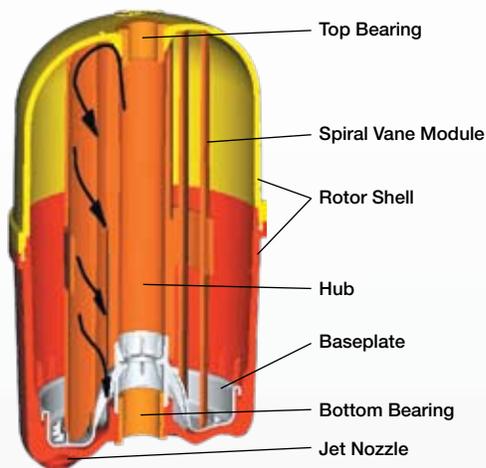
REAL™ Innovation.

Innovative SpiraTec™ design outperforms the competition.

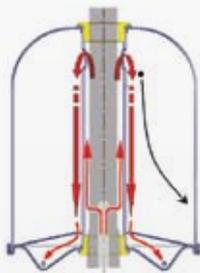
SpiraTec Removes More Soot

Patented SpiraTec technology collects soot up to 2.5 times faster than conventional empty rotor designs. This translates to a significant reduction in wear rates to key engine components and in the amount of soot the oil must keep in suspension.

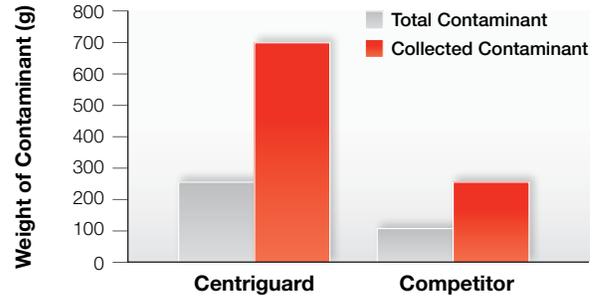
This increased separation efficiency is due to the reduced distance the contaminated oil must travel within the rotor before separating and sending clean oil back to the sump. Unlike conventional 'empty rotor' designs, oil entering the SpiraTec rotor passes through the gaps between spiral vanes which guide the contamination outward to the rotor perimeter where G-forces are highest. The contamination then collects forming a compressed sludge cake on the inside rotor wall.



With conventional 'empty rotor' designs, oil flows through the rotor adjacent to the center (hub) which is the area of least G-forces. The contaminant must cross the entire radius of the rotor unaided to reach the perimeter and separate.

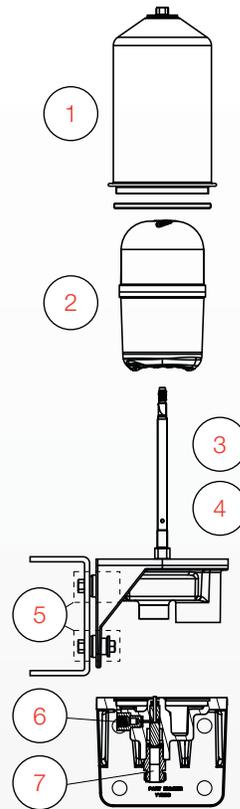


Performance Comparison at Standard Service Interval



Centriguard™ Construction

1. Housing Assembly (Cover Housing, Nut, O-ring, & Retaining Ring)
2. Service Rotor & Gasket
3. Gravity Drain Base Casting & Shaft (includes Vibration Isolators, Nuts, Bolts, & Washers)
4. Optional Air Assist Base Casting & Shaft (includes Vibration Isolators, Plunger Assembly, Air Control Fitting, Nuts, Bolts, & Washers)
5. Vibration Isolator Kit (4 Vibration isolators, 4 Bolts, 8 Washers, & 4 Nuts)
6. Optional Air Control Fitting (1/4 NPT)
7. Optional Oil Shutoff/Air Flow Plunger Assembly (Plunger, Spring, O-rings)



REAL™ Protection.

REAL Warranty Coverage that Goes Beyond the Competition

Providing customers the best warranty coverage in the industry is Cummins Filtration's ongoing promise that we want to be your supplier for life. As the only filtration manufacturer with a non-prorated warranty, Cummins Filtration guarantees to always be there after the sale.

For detailed information on the **Cummins Filtration Warranty**, refer to the Cummins Filtration warranty brochure and statement, available online at cumminsfiltration.com.

Remote Mount Centrifuge Assembly Packages

Centrifuge Assembly	CH41111	CH41112	CH41113	CH41114	CH41100	CH41101	CH41102
Service Rotor & Gasket	CS41011	CS41011	CS41016	CS41016	CS41005	CS41007	CS41007
Required Flowrate* @60psi	7.6 L/min (2 gpm)	7.6 L/min (2 gpm)	3.8 L/min (1 gpm)	3.8 L/min (1 gpm)	7.6 L/min (2 gpm)	3.8 L/min (1 gpm)	3.8 L/min (1 gpm)
Drain Hose and Attachment fitting	1¼" (32mm)	½" (13mm)	¾" (19mm)	¾" (10mm)	1¼" (32mm)	¾" (10mm)	¾" (19mm)
Air supply needed	N/A	¼" NPT	N/A	¼" NPT	N/A	¼" NPT	N/A
Overall height	363mm (14.3")	363mm (14.3")	363mm (14.3")	363mm (14.3")	285mm (11.2")	285mm (11.2")	285mm (11.2")
Clearance needed for rotor service	115mm (4.5")	115mm (4.5")	115mm (4.5")	115mm (4.5")	145mm (5.7")	145mm (5.7")	145mm (5.7")
Engine Displacement							
5L							
8L	■	■					
11L			■	■		■	■
14L					■		
17L						■	■
20L							
23L							
26L							

Note: Targeted engine size is for one centrifuge unit. For larger engines, it may be necessary to use multiple units to increase collection capacity during single service interval - provided the necessary oil flow is available.

For more technical and ordering information about the Centriguard™ product line, see our technical catalog, LT32599.



Filtration

For more information, visit cumminsfiltration.com

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