

## 3-Way™ Coolant Test Strip Instructions

### for Heavy Duty Diesel Engines

#### Pre-Test Instructions (Recommended Testing Frequency: Every lube service interval)

- Check the expiration date printed on the cap or pouch. Discard kit if expired.
- Collect coolant sample from the radiator or petcock. **DO NOT collect from the coolant recovery or overflow system.** Coolant must be between 50°F and 130°F when tested. Room temperature is best.
- For accurate results, test must be completed within **75 seconds**. Follow recommended test times.
- Use a stopwatch. Record and track the results.

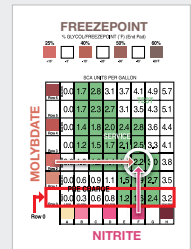
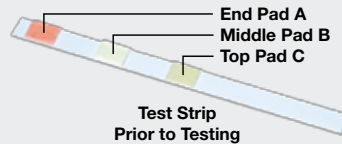
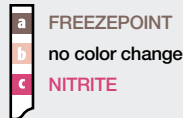
#### Test Instructions

- Remove one strip from bottle and replace cap immediately. **DO NOT** touch the pads on the end of the strip. **DISCARD KIT** if nitrite test pads of unused strips have turned tan-to-brown.
- Dip strip for **1 SECOND** in coolant sample, remove, and shake strip briskly to remove excess liquid.
- **45 SECONDS** after dipping strip, compare results to the color chart included in the test kit and record in the following order:

#### for DCA4:



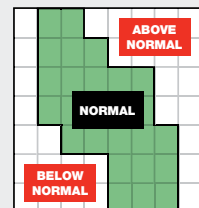
#### for DCA2:



- Complete all 3 readings **no later than 75 seconds** after dipping strip.
- If uncertain about color match, pick the LOWER column or row (ex.: if nitrite color is not quite F, use column E).
- The amount of coolant additive units/gallon in the cooling system is indicated where the following occurs:
  - for DCA4: the **MOLYBDATE** level intersects the **NITRITE** level
  - for DCA2: the **NITRITE** column intersects Row 0

#### Maintenance Actions Based on Results

- ABOVE NORMAL** Do not replace service filter or add DCA4 liquid until the concentration falls below 3.0 units/gallon. Test at every subsequent oil drain interval.
- NORMAL** Continue to replace the coolant filter at your normal interval.
- BELOW NORMAL** Replace the coolant filter and add 1 pint of additive per each 4 gallons of coolant (equals 1.2 units/gallon).



## Chart for Maintaining a 50/50 Ethylene Glycol Coolant/Water Mix

System Capacity Gallons	Freeze Point Degrees Farenheit vs Percent Concentrate																				System Capacity
	Under-Concentrated										Over-Concentrated										
	+32°F	+25°F	+20°F	+15°F	+10°F	+5°F	-5°F	-12°F	-23°F	-34°F	-50°F	-65°F	-75°F	-84°F	-70°F	-55°F	-43°F	-30°F	-6°F		
0%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	100%			
Drain Coolant, ADD CONCENTRATE/Gallons											Drain Coolant, ADD WATER/Gallons										
10	5	4	4	4	3	3	2	2	1	0	1	2	2	3	3	4	4	4	5	10	
12	6	5	5	5	4	3	3	2	1	0	1	2	3	3	4	5	5	5	6	12	
14	7	6	6	5	5	4	3	2	1	0	1	2	3	4	5	5	6	6	7	14	
16	8	7	7	6	5	5	4	3	1	0	1	3	4	5	5	6	6	7	7	16	
18	9	8	7	7	6	5	4	3	2	0	2	3	4	5	6	7	7	8	9	18	
20	10	9	8	8	7	6	5	3	2	0	2	3	4	6	7	8	8	9	10	20	

Part #	Immediate Release Coolant Additive	Thread Size
WF2093	5 units DCA4	11/16-16 UN- 2B
WF2070	2 units DCA4	11/16-16 UN- 2B
WF2071	4 units DCA4	11/16-16 UN- 2B
WF2072	6 units DCA4	11/16-16 UN- 2B
WF2073	8 units DCA4	11/16-16 UN- 2B
WF2087	9 units DCA4	11/16-16 UN- 2B
WF2151	4 units DCA4	11/16-16 UN- 2B
WF2015	8 units DCA4	3/4-20 UNEF- 2B
WF2074	12 units DCA4	5.43 (137.92)
WF2075	15 units DCA4	11/16-16 UN- 2B
WF2076	23 units DCA4	11/16-16 UN- 2B
WF2083	4 units DCA4	3/4-20 UNF-2B
WF2104	15 units DCA4	11/16-16 UN- 2B
WF2106	4 units DCA4	11/16-16 UN- 2B
WF2108	8 units DCA4	M16 X 1.5-6H INT
WF2022	11 units DCA4	1-16 UN-2B
WF2082	6 units DCA4	1-16 UN-2B
WF2051	4 units DCA2	11/16-16 UN- 2B
WF2088	6 units DCA2	11/16-16 UN- 2B
WF2054	15 units DCA2	11/16-16 UN- 2B
WF2144	12 units DCA2	11/16-16 UN- 2B
WF2096	4 units DCA2	M16 X 1.5-6H INT
WF2145	18 units DCA2	11/16-16 UN- 2B
WF2053	8 units DCA2	11/16-16 UN- 2B
WF2055	23 units DCA2	11/16-16 UN- 2B
WF2091	14 units DCA2	11/16-16 UN- 2B
WF2056	34 units DCA2	11/16-16 UN- 2B

Part #	Slow Release Coolant Additive	Thread Size
WF2121	15 units DCA 4	11/16-16 UN- 2B
WF2124	15 units DCA 4	3/4-20 UNEF- 2B
WF2128	15 units DCA 4	M16 X 1.5-6H INT
WF2126	8 units DCA 4	M36 X 2-6G INT
WF2131	15 units DCA 2	11/16-16 UN-2B
WF2133	15 units DCA 2	3/4-20 UNEF-2B
WF2138	15 units DCA 2	M16 X 1.5-6H INT



Check Fleetguard Product Guide or web catalog at [cumminsfiltration.com](http://cumminsfiltration.com) for full water filter coverage.



For more information, visit [cumminsfiltration.com](http://cumminsfiltration.com)

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