

3-Way™ Coolant Test Strip Instructions

REAL™ Answers for Heavy Duty Diesel Engines

Pre-Test Instructions

Recommended Testing Frequency: At every lube service interval.

- 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.

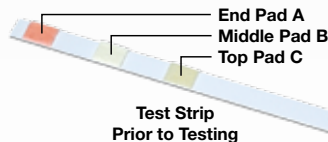
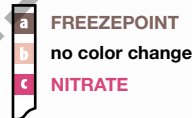
Test Instructions

- 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 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:

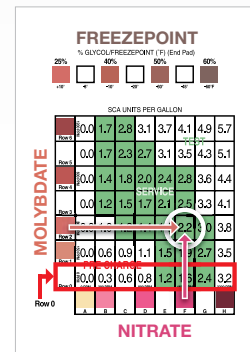


for DCA2:



- All 3 readings must be completed **no later than 75 seconds** after dipping strip.
- If uncertain about the 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 per gallon in the cooling system is indicated where the following occurs:

- for DCA4: the **MOLYBDATE** level intersects the **NITRITE** level
- for SCA: the **NITRITE** column intersects Row 0



Maintenance Actions Based on Results

ABOVE NORMAL

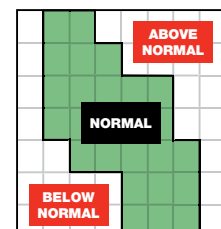
Do not replace service filter or add DCA4 liquid until the concentration falls below 3.0 units/gallon. Test at every subsequent oil drain interval.

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).



REAL™ Answers.

System Capacity Gallons		Chart for Maintaining a 50/50 Ethylene Glycol Coolant/Water Mix																		System Capacity	
		Under-Concentrated Freeze Point Degrees Farenheit vs Percent Concentrate 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		
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	7	14		
16	8	7	7	6	5	5	4	3	1	0	1	3	4	5	5	6	6	7	16		
18	9	8	7	7	6	5	4	3	2	0	2	3	4	5	6	7	7	8	18		
20	10	9	8	8	7	6	5	3	2	0	2	3	4	6	7	8	8	9	20		

Coolant Filters			
DCA2	DCA4	Units	Application
WF2107	WF2107	—	Cummins/Universal
WF2050	WF2070	2	Cummins/Universal
WF2051	WF2071	4	Cummins/Universal
WF2052	WF2072	6	Cummins/Universal
WF2053	WF2073	8	Cummins/Universal
WF2067	WF2074	12	Cummins/Universal
WF2054	WF2075	15	Cummins/Universal
WF2055	WF2076	23	Cummins/Universal
WF2078	WF2078	—	Mack
N/A	WF2083	4	Mack
N/A	WF2082	6	Mack
N/A	WF2015	8	Mack
N/A	WF2022	11	Mack
WF2109	WF2109	—	Volvo
WF2096	N/A	4	Volvo
N/A	WF2108	8	Volvo
WF2131	WF2121	1yr	Nalcool NF2088

Coolant System Additives		
DCA2	Size	DCA4
DCA30L	Pint	DCA60L
DCA35L	1/2 Gallon	DCA65L
DCA40L	Gallon	DCA70L
DCA45L	5 Gallon	DCA45L
DCA50L	55 Gallon	DCA80L



Check Fleetguard Product Guide or web catalog at cumminsfiltration.com for full water filter coverage.



Filtration

For more information, visit cumminsfiltration.com

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