

SHOP TALK



Coolant Maintenance Guidelines

How To Use The Kit

Follow instructions on the kit insert, and read the following precautions before using the kit.

The coolant sample to be tested must be between 50°F/10°C and 130°F/54°C. If you are not sure if the coolant is too hot or too cold, take a sample from the radiator or petcock and set it aside for a few minutes before beginning your test.

Compare test strip pads to the color chart in daylight or under cool white fluorescent lighting. It is acceptable to estimate between two color blocks on the color chart. When a test does fall between two colors on the color chart, choose the lower numbered block. It is safer to underestimate your results than to overestimate. Readings using this test kit will vary slightly from test to test based on normal variations in color interpretations. The test kit readings are slightly biased to prevent a too-low chemical additive level being mistakenly read as "safe."

These test strips do have a limited shelf life and are sensitive to humidity and extreme heat. *Store in an area where the temperature will generally stay below 90°F/32°C.*

Do not use the test strips after the expiration date. **Discard the kit if any of the pads on the unused strips have turned light brown or pink.** Use one strip at a time and take care not to

touch any of the pads on the strip. Doing so will contaminate the pads and affect test results.

Only use the color chart supplied with this kit. If the chart gets dirty it can be cleaned with a damp cloth (do not use soap or solvents).

Clean and dry the sample cup and syringe after each use. This will prevent contaminating future samples.

Following the correct test times is very important. Use a clock or stopwatch. Comparing the strip to the chart too soon or too late will give you incorrect readings. The test strip pads will continue to change color until they dry out.

The freeze point test is a reliable method for checking to see if coolant is in an acceptable freeze point range. If a more specific measurement is required, use a refractometer.

These test strips will work in both ethylene glycol (EG) or propylene glycol (PG) coolants, even if they are mixed in the same cooling system.

Proper Diesel Engine Coolant Maintenance Requires ...

1. Low silicate antifreeze
2. Good quality water
3. Protective Coolant Additive
4. Chemical Concentration Testing

Cooling System Treatment

Liquid Measure	SCA	SCA+
1 Pt./ 0.47 L.	X006136	X007099
1 Qt./ .95 L.	X007036	
2 Qt./ 1.89 L.	X007037	X007100
1 Gal./ 3.79 L.	X007038	
5 Gal./ 18.93 L.	X006137	X007101
Drum: 55 Gal./ 208.2 L.	X006138	X007102

Coolant Filters

Designed to Fit

- | | |
|--------------|-------------------------|
| 1 - All | 4 - All, for hard water |
| 2 - Navistar | 5 - Volvo |
| 3 - Mack | |

Charged With	Fits	SCA Part No.	SCA+ Part No.
None	1	P554685	P552077
2 units	1		P552070
4 units	1	P554071	P552071
	2		P552106
	5	P552096	
6 units	1	P554072	P552072
8 units	1	P554073	P552073
	3	P554860	P552015
	5	P554019	
11 units	3	P554422	
12 units	1	P554074	P552074
15 units	1	P554075	P552075
23 units	1	P552055	P552076
Extended Life	1	P552088	

These tables are intended to be used as guidelines at service intervals or at flush and re-charge time.

Servicing Cooling Systems up to 20 Gallons

Service Interval	-----System Capacity-----			
	0-5 gals	6-10 gals	11-15 gals	16-20 gals
at 5,000 miles or 125 hours	n/a	2 units	2 units	2 units
at 10,000 miles or 250 hours	2 units	2 units	4 units	4 units
at 15,000 miles or 375 hours	2 units	4 units	4 units	6 units
at 20,000 miles or 500 hours	2 units	4 units	6 units	8 units
at 25,000 miles or 625 hours	2 units	4 units	8 units	12 units

*SCA or SCA+

Servicing Cooling Systems 21-400 Gallons

Add SCA or SCA+ Liquid Pints:

- 1 - at 250 Hours
- 2 - at 500 Hours

Capacity	1	2
21 to 30 gallons	2 pints	3 pints
31 to 50 gallons	3 pints	5 pints
51 to 75 gallons	4 pints	8 pints
76 to 100 gallons	5 pints	10 pints
101 to 150 gallons	8 pints	15 pints
151 to 200 gallons	10 pints	20 pints
201 to 250 gallons	13 pints	25 pints
251 to 300 gallons	15 pints	30 pints
301 to 350 gallons	18 pints	35 pints
351 to 400 gallons	20 pints	40 pints

Action Required: After testing coolant for additive concentration at the normal oil drain interval:

- If Additive level is below 1.2 units per gallon: Replace the coolant filter and add 1 pint of additive liquid per each 4 gallons of coolant (equals 1.2 units per gallon).
- If Additive level is 1.2 to 3 units per gallon: Continue to replace the coolant filter at each oil drain interval.

Re-Charging Cooling System After Flush

After flushing, refill with a ratio of 1 pint of additive* to each 4 gallons of coolant.

Gallons of Coolant in System	Additive* Liquid Volume	Resulting Units Per Gallon
5 to 7	2 pints	1.4 to 2
8 to 11	3 pints	1.3 to 1.9
11 to 15	4 pints	1.3 to 1.8
16 to 20	5 pints	1.2 to 1.6
21 to 30	1 gal	1.3 to 1.9
31 to 50	1.5 gal	1.2 to 1.9
51 to 75	2.25 gal	1.2 to 1.8
76 to 100	3 gal	1.2 to 1.6
101 to 150	4.5 gal	1.2 to 1.8
151 to 200	6 gal	1.2 to 1.6
201 to 250	7.5 gal	1.2 to 1.5
251 to 300	9 gal	1.2 to 1.4
301 to 350	10.5 gal	1.2 to 1.4
351 to 400	12 gal	1.2 to 1.4

*SCA or SCA+

- If Additive level is above 3 units per gallon: Replace the coolant filter with a non-charged filter until the additive concentration falls below 3 units per gallon when tested at every subsequent oil drain interval.



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