



SERVICE BULLETIN

**TO: ALL DISTRIBUTORS
AND JOBBERS**

DATE: APRIL 9, 2004

FROM: S. D. CHRISTOPHERSEN, PRODUCT SERVICE AND TRAINING

SUBJECT: DEX-COOL ENGINE COOLANT INFORMATION

DESCRIPTION:

The DEX-COOL® engine coolant information provided below applies to 2004 and prior passenger cars and trucks and HUMMER H2s. This is a supplement to GM Corporate bulletin 00-06-02-006 (Section 6-Engine/Propulsion System).

LICENSED APPROVED DEX-COOL® PROVIDERS:

Important

Use of non-approved virgin or recycled DEX-COOL® or deviations in the form of alternate chemicals or alteration of equipment will void the GM endorsement, may degrade coolant system integrity, and place the cooling system warranty under jeopardy.

Following are the only current licensed and approved providers of virgin DEX-COOL® and DEX-COOL® inhibitor packages used for recycling. Products that are advertised as "COMPATIBLE" or "RECOMMENDED" for use with DEX-COOL® have not been tested or approved by General Motors. Non-approved coolants may degrade the coolant system's integrity and will no longer be considered a 5yr/150,000 mile (240,000 km) coolant.

Approved providers of DEX-COOL® meeting General Motors GM6277M specifications are as follows:

GM Vehicle Care	Shell
AC Delco	Prestone
ChevronTexaco	Recycled Fluid Technologies (Bulk Service)

COOLANT REMOVAL SERVICES/RECYCLING:

The following tables include all coolant recycling processes currently approved by GM. Also included is a primary phone number and demographic information. Used DEX-COOL® can be combined with used conventional coolant (green) for recycling. Depending on the recycling service and/or equipment, it is then designated as a conventional (2yr/30,000 mile (50,000 km) coolant or DEX-COOL® 5yr/150,000 mile (240,000 km) coolant. Recycled coolants as designated in this bulletin may be used during the vehicle(s) warranty period.

DEX-COOL® Recycling -

The DEX-COOL® recycling service listed in Table 1 has been approved for recycling waste engine coolants (DEX-COOL® or conventional) to DEX-COOL® with 5yr/150,000 (240,000 km) mile usability. Recycled Fluid Technologies is the only licensed provider of Recycled DEX-COOL® meeting GM6277M specifications and utilizes GM approved inhibitor packages. This is currently a limited program being monitored by GM Service Operations, which will be expanded as demand increases.

Conventional (Green) Recycling -

Processes listed in the Table 2 are capable of recycling waste engine coolants (DEX-COOL® or conventional) to a conventional (green) coolant. Recycling conventional coolant can be accomplished at your facility by a technician using approved EQUIPMENT (listed by model number in Table 2) or by an approved coolant recycling SERVICE, which may recycle the coolant at your facility or at an offsite operation. Refer to the table below for GM approved coolant recyclers in either of these two categories. Should you decide to recycle the coolant yourself, strict adherence to the operating procedures is imperative. Use *ONLY* the inhibitor chemicals supplied by the respective (GM approved) recycling equipment manufacturer.

Table 1				
Approved Engine Coolant Recycling Services - DEX-COOL®				
Recycler	Equipment/Service	Recycled Products	Demographics	Contact
Recycling Fluid Technologies	Service	DEX-COOL® Licensed Provider (50/50 pre-mix)	IN, IL, MI, OH	800-474-4947

Table 2				
Approved Engine Coolant Recycling Services and Equipment - Conventional Green				
Recycler	Equipment/Service	Recycled Products	Demographics	Contact
Antifreeze Technologies Systems	Service	Conventional Green (50/50 pre-mix)	IL, IN, MA, MD, MI, NH, NJ, PA, TX, VA	800-474-4947
Asbury Environmental Services/Demenno Kerdoon - Trinity Brand	Service	Conventional Green (50/50 pre-mix)	AZ, CA, NV, OR, WA	800-974-4495
Automotive Environmental Service	Service	Conventional Green (50/50 pre-mix)	AZ, CA, NV, OR, WA	650-325-2666
Kleentek	AF-250	Conventional Green (50/50 pre-mix)	US, Canada, Mexico	800-435-5336
Wynn Oil Company	Du-All Bulk 07400	Conventional Green (50/50 pre-mix)	US, Canada, Mexico	800-GMTools 800-989-8363
Clore Automotive	TechGuard	Conventional Green (50/50 pre-mix)	US, Canada, Mexico	800-328-2921

SEALING TABLETS:

Cooling System Sealing Tablets (Seal Tabs) should not be used as a regular maintenance item after servicing an engine cooling system. Discoloration of coolant can occur if too many seal tabs have been inserted into the cooling system. This can occur if seal tabs are repeatedly used over the service life of a vehicle. Where appropriate, seal tabs may be used if diagnostics fail to repair a small leak in the cooling system. When a condition appears in which seal tabs may be beneficial, a specific bulletin may be released describing their proper usage. After performing specific procedures outlining seal tab usage, install an appropriate identification label to indicate that the seal tabs have been installed. The recommended number of seal tabs depends on the capacity of the cooling system. Use between 1 and 1-1/2 grams of seal tabs per liter of cooling system capacity.

WATER QUALITY:

The integrity of the coolant is dependent upon the quality of DEX-COOL® and water. DEX-COOL® is a product which has enhanced protection capability as well as an extended service interval. These enhanced properties may be jeopardized by combining DEX-COOL® with poor quality water. If you suspect the water in your area of being poor quality, it is recommended you use distilled or de-ionized water with DEX-COOL®.

"PINK" DEX-COOL®:

DEX-COOL® is orange in color to distinguish it from other coolants. Due to inconsistencies in the mixing of the dyes used with DEX-COOL®, some batches may appear pink after time. The color shift from orange to pink does not affect the integrity of coolant and still maintains the 5yr/150,000 mile (240,000 km) service interval. General Motors is currently pursuing a course of action which will stabilize the color of DEX-COOL® in the field.

BACK SERVICE:

Only use DEX-COOL® if the vehicle was originally equipped with DEX-COOL®.

CONTAMINATION:

Mixing conventional green coolant with DEX-COOL® will degrade the service interval from 5yrs./150,000 miles to 2yrs./30,000 miles (50,000 km) if left in the contaminated condition. If contamination occurs, the cooling system must be flushed twice immediately and re-filled with a 50/50 mixture of DEX-COOL® and clean water in order to preserve the enhanced properties and extended service interval of DEX-COOL®.

After 5 years/150,000 miles (240,000 km) -

After 5 yrs/150,000 miles (240,000 km), the coolant should be changed, preferably using a coolant exchanger. If the vehicle was originally equipped with DEX-COOL® and has not had problems with contamination from non-DEX-COOL® coolants, then the service interval remains the same, and the coolant does not need to be changed for another 5 yrs/150,000 miles (240,000 km).

EQUIPMENT (COOLANT EXCHANGERS):

The preferred method of performing coolant service is to use a coolant exchanger. A coolant exchanger can replace virtually all of the old coolant with new coolant. Coolant exchangers can be used to perform a coolant service without spillage and facilitate easy waste collection. They can also be used to lower the coolant level in a vehicle to allow for less messy servicing of cooling system components. It is recommended that you use a coolant exchanger with a vacuum feature that allows removing trapped air from the cooling system. This is a substantial timesaving over current methods of repeatedly thermocycling the vehicle and topping-off the radiator. The vacuum feature also allows venting of a hot system to relieve system pressure. Approved coolant exchangers are available through the SPX.

ACDelco/GM service bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer." They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely.