

# Not All Engine Oils Are Alike



**M**echanics, when it's time to change the engine oil in an M1-series tank, the TMs and LOs are pretty specific about what to use: MIL-PRF-23699.

But there's actually a lot more to the story. Did you know that there are three different classes of oil under this specification, each with its own set of NSNs? And did you also know that the class of oil you use can either help or hurt that AGT1500 engine, depending on the situation?

## The Classes

**High Thermal Stability (HTS) Class.** This class is for normal engine use. HTS class turbine oil contains special anti-coking additives that help prevent bearing and seal damage. That means more operating hours between major repairs and big-time cost savings.

**Standard (STD) Class.** This class should be used only as an emergency substitute if HTS oil is unavailable.

**Corrosion Inhibiting (C/I) Class.** This class is specially designed for long-term storage only. C/I class oil contains additives that make it foam-, wear- and corrosion-resistant. Use it in tanks that will be stored outdoors for longer than 6 months or indoors for longer than 12 months.

While in storage, you may need to exercise, move or perform maintenance on the tank. C/I oil is OK as long as usage doesn't exceed 50 hours and the tank is going right back into storage.

When the tank is coming out of storage and back into regular operation, drain the C/I oil and replace it with HTS engine oil.

The 2007 version of the *TARDEC POL Products Guide*, lists C/I class oil first on Page 9. Don't be misled, though! HTS is the #1 choice for normal operations. To check out the guide, go to:

[http://contracting.tacom.army.mil/majorsys/lcrtf/2007%20POL%20Products%20Guide%20\\_JAN07\\_.pdf](http://contracting.tacom.army.mil/majorsys/lcrtf/2007%20POL%20Products%20Guide%20_JAN07_.pdf)

**What to Order**

Class	Size	NSN 9150-
HTS	8-oz	01-439-0764
HTS	1-qt	01-439-0756
HTS	55-gal	01-439-2070
STD	8-oz	01-476-1074*
STD	1-qt	01-476-1075*
STD	55-gal	01-476-1083*
C/I	8-oz	00-180-6266
C/I	1-qt	00-985-7099
C/I	55-gal	00-681-5999

\*Order on a DD Form 1348-6 and put "NSN not on AMDF" in the REMARKS block

M1-Series Tanks...

# Less BANG for Your BUCK!

**Y**our M1-series tank goes through a lot of jarring movement when it's being transported by ship or train. And that movement can cause damage.

Make sure you close and lock the semi-ready ammunition door before your tank is shipped. If you leave it open or unlocked, the door may bang open and closed over and over during transit. That damages the locking mechanism.