

INCH-POUND

MIL-C-15730M(SH)  
AMENDMENT 1  
28 March 1997

## MILITARY SPECIFICATION

COOLERS, FLUID, NAVAL SHIPBOARD: LUBRICATING OIL,  
HYDRAULIC OIL, AND FRESH WATER

This amendment forms a part of MIL-C-15730M(SH) dated 24 May 1995, and is approved for use by the Naval Sea Systems Command, and is available for use by all Departments and Agencies of the Department of Defense.

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3.4.15.1, equation for "Piping torsional moment", delete and substitute:

"Piping torsional moment =  $\pi r_m^2 t \sqrt{s_y^2 - (Pr_i/2t)^2}$  pound-inches"

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3.4.15.3 (d) (1), delete equation and substitute:

$$"T = \frac{Pr_t}{12} \left[ \frac{\cos \theta \tan \alpha + \mu}{\cos \theta - \mu \tan \alpha} + \frac{r_c}{r_t} \mu \right] "$$

AMSC N/A

FSC 4420

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3.4.15.3 (d) (2), delete equation and substitute:

$$"S_{av} = \frac{P}{6\pi\mu^2 D_h^2 D^3} \left[ (D^2 + 16\mu^2 D_h^2)^{3/2} - D^3 \right] \text{ lb/in}^2 "$$

Preparing activity:  
Navy-SH  
(Project 4420-N079)