



MATERIAL SPECIFICATION

CA.418
ISSUE B

HYDRAULIC FLUID - INHIBITED - PETROLEUM BASE

1. DESCRIPTION

This specification covers two grades of hydraulic fluid and endorses the following specifications:

C.A.C. DESIGNATION	GRADE	ENDORSED SPECIFICATION
CA.418-1	Standard	U.S. Military Specification MIL-H-6083 B, Type I (Ready mixed material). (1)
CA.418-2	Solid contaminant controlled ("super-clean"). <u>See APPENDIX 1.</u>	U.S. Military Specification MIL-H-6083 C

(1) Specification obsolete, but retained for use as a product grade, and performance reference.

2. APPLICATION

The hydraulic fluid consists of a petroleum base oil with additive materials to inhibit corrosion and to improve the viscosity temperature characteristics and resistance to oxidation of the finished product.

ISSUE	DATE	WRITTEN	APPROVED			CA.418 ISSUE B SUPERSEDES CA.418 ISSUE A
			C.A.C.	R. A. A. F.		
A	Aug. '52.	A.P.	J.C.E.	E.K.DeC.		
B	Feb. '70.	M.R.C.	N.A.V.	S.R.		

2. APPLICATION (Cont'd.)

The hydraulic fluid is intended primarily for use as a testing medium within a temperature range of -54°C (-65°F) to $+135^{\circ}\text{C}$ ($+275^{\circ}\text{F}$) and for limited operational use. It is also intended for use as a preservative medium for hydraulic systems and components in aircraft and ordnance equipment. The appropriate grade shall be used as specified.

This fluid is not interchangeable with any other type of hydraulic fluid.

NOTE: The product is compatible with the corresponding grade of CA.412 Hydraulic Fluid and components preserved with this oil do not require cleaning with flight or flushing oils prior to being placed in operation.

3. PROPRIETARY PRODUCTS

3.1 The following proprietary products are approved under this specification:

C.A.C. DESIGNATION	PROPRIETARY PRODUCT
CA.418-1	Mobil Avrex 903 . . . Mobil Oil Australia Limited.
CA.418-2	Mobil Avrex 904 . . . Mobil Oil Australia Limited.

3.2 These products shall be purchased to, and released against, this specification number or the appropriate endorsed specification number.

4. NATO PRODUCT CODE SYMBOL

CA.418-1	-
CA.418-2	C-635

A P P E N D I X 1.

For Information Only.

Particulate Contamination (CA.418-2).

When suitably tested, the number of contaminant particles per 100 ml. of fluid shall not exceed the number specified in Table A, and the filtration time shall not exceed 15 minutes.

TABLE A. Contaminant Particles.

Particle size range (largest dimension), microns.	Allowable number (max.) each determination.
5 - 15	2,500
16 - 25	1,000
26 - 50	250
51 - 100	25
Over 100	5